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contain recommendations for remedial work when appropriate, and will be transmitted through the Division Engineer for review and to HQDA (DAEN-CWE) WASH DC 20314 for review and approval. For structures incurring no damage a simple statement to this effect will be all that is required in the report, unless seismic instrumentation at the project is activated. (See paragraph (h)(4) of this section.)

(g) *Training.* The dam safety training program covered by paragraph 6 of ER 1130-2-419 should include post-earthquake inspections and the types of damage operations personnel should look for.

(h) *Responsibilities.* (1) The Engineering Divisions of the District offices will formulate the inspection program, conduct the post-earthquake inspections, process and analyze the data of instrumental and other observations, evaluate the resulting condition of the structures, and prepare the inspection reports. The Engineering division is also responsible for planning special instrumentation felt necessary in selected structures under this program. Engineering Division is responsible for providing the training discussed in paragraph (g) of this section.

(2) The Construction Divisions of the District offices will be responsible for the installation of the earthquake instrumentation devices and for data collection if an earthquake occurs during the construction period.

(3) The Operations Division of the District offices will be responsible for the immediate assessment of earthquake damage and notifying the Chief, Engineering Division as discussed in paragraphs (f)(1) and (2). The Operations Division will also be responsible for earthquake data collection after the construction period in accordance with the instrumental observation programs, and will assist and participate in the post-earthquake inspections.

(4) The U.S. Geological Survey has the responsibility for servicing and collecting all data from strong motion instrumentation at Corps of Engineers dam projects following an earthquake occurrence. However, the U.S. Army Waterways Experiment Station (WES) is assigned the responsibility for analyzing and interpreting these earth-

quake data. Whenever a recordable earthquake record is obtained from seismic instrumentation at a Corps project, the Division will send a report of all pertinent instrumentation data to the Waterways Experiment Station, ATTN: WESGH, P.O. Box 631, Vicksburg, Mississippi 39180. The report on each project should include a complete description of the locations and types of instruments and a copy of the instrumental records from each of the strong motion machines activated. (Exempt from requirements control under paragraph 7-2v, AR 335-15).

(5) The Engineering Divisions of the Division offices will select structures for special instrumentation for earthquake effects, and will review and monitor the data collection, processing, evaluating, and inspecting activities. They will also be specifically responsible for promptly informing HQDA (DAEN-CWE) WASH DC 20314, when evaluation of the condition of the structure or analyses of the instrumentation data indicate the stability of a structure is questionable. (Exempt for requirements control under paragraph 7-2o, AR 335-15.)

(6) Division Engineers are responsible for issuing any supplementary regulations necessary to adapt the policies and instructions herein to the specific conditions within their Division.

(i) *Funding.* Funding for the evaluation and inspection program will be under the Appropriation 96X3123, Operations and Maintenance, General. Funds required for the inspections, including Travel and Per Diem costs incurred by personnel of the Division office or the Office, Chief of Engineers, will be from allocations made to the various projects for the fiscal year in which the inspection occurs.

[44 FR 43469, July 25, 1979. Redesignated at 60 FR 19851, Apr. 21, 1995]

## § 222.5 Water control management (ER 1110-2-240).

(a) *Purpose.* This regulation prescribes policies and procedures to be followed by the U.S. Army Corps of Engineers in carrying out water control management activities, including establishment of water control plans for Corps and non-Corps projects, as required by Federal laws and directives.

(b) *Applicability.* This regulation is applicable to all field operating activities having civil works responsibilities.

(c) *References.* Appendix A lists U.S. Army Corps of Engineers publications and sections of Federal statutes and regulations that are referenced herein.

(d) *Authorities—(1) U.S. Army Corps of Engineers projects.* Authorities for allocation of storage and regulation of projects owned and operated by the Corps of Engineers are contained in legislative authorization acts and referenced project documents. These public laws and project documents usually contain provisions for development of water control plans, and appropriate revisions thereto, under the discretionary authority of the Chief of Engineers. Some modifications in project operation are permitted under congressional enactments subsequent to original project authorization. Questions that require interpretations of authorizations affecting regulation of specific reservoirs will be referred to CDR USACE (DAEN-CWE-HW), WASH DC 20314, with appropriate background information and analysis, for resolution.

(2) *Non-Corps projects.* The Corps of Engineers is responsible for prescribing flood control and navigation regulations for certain reservoir projects constructed or operated by other Federal, non-Federal or private agencies. There are several classes of such projects: Those authorized by special acts of Congress; those for which licenses issued by the Federal Energy Regulatory Commission (formerly Federal Power Commission) provide that operation shall be in accordance with instructions of the Secretary of the Army; those covered by agreements between the operating agency and the Corps of Engineers; and those that fall under the terms of general legislative and administrative provisions. These authorities, of illustrative examples, are described briefly in Appendix B.

(e) *Terminology: Water control plans and reservoir regulation schedules.* (1) Water control plans include coordinated regulation schedules for project system regulation and such additional provisions as may be required to collect, analyze and disseminate basic data, prepare detailed operating instructions, assure project safety and

carry out regulation of projects in an appropriate manner.

(2) The term “reservoir regulation schedule” refers to a compilation of operating criteria, guidelines, rule curves and specifications that govern basically the storage and release functions of a reservoir. In general, schedules indicate limiting rates of reservoir releases required during various seasons of the year to meet all functional objectives of the particular project, acting separately or in combination with other projects in a system. Schedules are usually expressed in the form of graphs and tabulations, supplemented by concise specifications.

(f) *General policies.* (1) Water control plans will be developed for reservoirs, locks and dams, reregulation and major control structures and interrelated systems to conform with objectives and specific provisions of authorizing legislation and applicable Corps of Engineers reports. They will include any applicable authorities established after project construction. The water control plans will be prepared giving appropriate consideration to all applicable Congressional Acts relating to operation of Federal facilities, i.e., Fish and Wildlife Coordination Act (Pub. L. 85-624), Federal Water Project Recreation Act-Uniform Policies (Pub. L. 89-72), National Environmental Policy Act of 1969 (Pub. L. 91-190), and Clean Water Act of 1977 (Pub. L. 95-217). Thorough analysis and testing studies will be made as necessary to establish the optimum water control plans possible within prevailing constraints.

(2) Necessary actions will be taken to keep approved water control plans up-to-date. For this purpose, plans will be subject to continuing and progressive study by personnel in field offices of the Corps of Engineers. These personnel will be professionally qualified in technical areas involved and familiar with comprehensive project objectives and other factors affecting water control. Organizational requirements for water control management are further discussed in ER 1110-2-1400.

(3) Water control plans developed for specific projects and reservoir systems will be clearly documented in appropriate water control manuals. These

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manuals will be prepared to meet initial requirements when storage in the reservoir begins. They will be revised as necessary to conform with changing requirements resulting from developments in the project area and downstream, improvements in technology, new legislation and other relevant factors, provided such revisions comply with existing Federal regulations and established Corps of Engineers policy.

(4) Development and execution of water control plans will include appropriate consideration for efficient water management in conformance with the emphasis on water conservation as a national priority. The objectives of efficient water control management are to produce beneficial water savings and improvements in the availability and quality of water resulting from project regulation/operation. Balanced resource use through improved regulation should be developed to conserve as much water as possible and maximize all project functions consistent with project/system management. Continuous examination should be made of regulation schedules, possible need for storage reallocation (within existing authority and constraints) and to identify needed changes in normal regulation. Emphasis should be placed on evaluating conditions that could require deviation from normal release schedules as part of drought contingency plans (ER 1110-2-1941).

(5) Adequate provisions for collection, analysis and dissemination of basic data, the formulation of specific project regulation directives, and the performance of project regulation will be established at field level.

(6) Appropriate provisions will be made for monitoring project operations, formulating advisories to higher authorities, and disseminating information to others concerned. These actions are required to facilitate proper regulation of systems and to keep the public fully informed regarding all pertinent water control matters.

(7) In development and execution of water control plans, appropriate attention will be given to project safety in accordance with ER 1130-2-417 and ER 1130-2-419 so as to insure that all water impounding structures are operated for the safety of users of the facilities and

the general public. Care will be exercised in the development of reservoir regulation schedules to assure that controlled releases minimize project impacts and do not jeopardize the safety of persons engaged in activities downstream of the facility. Water control plans will include provisions for issuing adequate warnings or otherwise alerting all affected interests to possible hazards from project regulation activities.

(8) In carrying out water control activities, Corps of Engineers personnel must recognize and observe the legal responsibility of the National Weather Service (NWS), National Oceanic and Atmospheric Administration (NOAA), for issuing weather forecasts and flood warnings, including river discharges and stages. River forecasts prepared by the Corps of Engineers in the execution of its responsibilities should not be released to the general public, unless the NWS is willing to make the release or agrees to such dissemination. However, release to interested parties of factual information on current storms or river conditions and properly quoted NWS forecasts is permissible. District offices are encouraged to provide assistance to communities and individuals regarding the impact of forecasted floods. Typical advice would be to provide approximate water surface elevations at locations upstream and downstream of the NWS forecasting stream gages. Announcement of anticipated changes in reservoir release rates as far in advance as possible to the general public is the responsibility of Corps of Engineers water control managers for projects under their jurisdiction.

(9) Water control plans will be developed in concert with all basin interests which are or could be impacted by or have an influence on project regulation. Close coordination will be maintained with all appropriate international, Federal, State, regional and local agencies in the development and execution of water control plans. Effective public information programs will be developed and maintained so as to inform and educate the public regarding Corps of Engineers water control management activities.

(10) Fiscal year budget requests for water control management activities

will be prepared and submitted to the Office of the Chief of Engineers in accordance with requirements established in Engineer Circular on Annual Budget Requests for Civil Works Activities. The total annual costs of all activities and facilities that support the water control functions, (excluding physical operation of projects, but including flood control and navigation regulation of projects subject to 33 CFR 208.11) are to be reported. Information on the Water Control Data Systems and associated Communications Category of the Plant Replacement and Improvement Program will be submitted with the annual budget. Reporting will be in accordance with the annual Engineer Circular on Civil Works Operations and Maintenance, General Program.

(g) *Responsibilities: US Army Corps of Engineers projects—(1) Preparation of water control plans and manuals.* Normally, district commanders are primarily responsible for background studies and for developing plans and manuals required for reservoirs, locks and dams, deregulation and major control structures and interrelated systems in their respective district areas. Policies and general guidelines are prescribed by OCE engineer regulations while specific requirements to implement OCE guidance are established by the division commanders concerned. Master Water Control Manuals for river basins that include more than one district are usually prepared by or under direct supervision of division representatives. Division commanders are responsible for providing such management and technical assistance as may be required to assure that plans and manuals are prepared on a timely and adequate basis to meet water control requirements in the division area, and for pertinent coordination among districts, divisions, and other appropriate entities.

(2) *Public involvement and information—(i) Public meeting and public involvement.* The Corps of Engineers will sponsor public involvement activities, as appropriate, to appraise the general public of the water control plan. In developing or modifying water control manuals, the following criteria is applicable.

(A) Conditions that require public involvement and public meetings include: Development of a new water control manual that includes a water control plan; or revision or update of a water control manual that changes the water control plan.

(B) Revisions to water control manuals that are administratively or informational in nature and that do not change the water control plan do not require public meetings.

(C) For those conditions described in paragraph (g)(2)(i)(A) of this section, the Corps will provide information to the public concerning proposed water control management decisions at least 30 days in advance of a public meeting. In so doing, a separate document(s) should be prepared that explains the recommended water control plan or change, and provides technical information explaining the basis for the recommendation. It should include a description of its impacts (both monetary and nonmonetary) for various purposes, and the comparisons with alternative plans or changes and their effects. The plan or manual will be prepared only after the public involvement process associated with its development or change is complete.

(D) For those conditions described in paragraph (g)(2)(i)(A) of this section, the responsible division office will send each proposed water control manual to the Army Corps of Engineers Headquarters, Attn: CECW-EH-W for review and comments prior to approval by the responsible division office.

(ii) *Information availability.* The water control manual will be made available for examination by the general public upon request at the appropriate office of the Corps of Engineers. Public notice shall be given in the event of occurring or anticipated significant changes in reservoir storage or flow releases. The method of conveying this information shall be commensurate with the urgency of the situation and the lead time available.

(3) *Authority for approval of plans and manuals.* Division commanders are delegated authority for approval of water control plans and manuals, and associated activities.

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(4) *OCE role in water control activities.* OCE will establish policies and guidelines applicable to all field offices and for such actions as are necessary to assure a reasonable degree of consistency in basic policies and practices in all Division areas. Assistance will be provided to field offices during emergencies and upon special request.

(5) *Methods improvement and staff training.* Division and district commanders are responsible for conducting appropriate programs for improving technical methods applicable to water control activities in their respective areas. Suitable training programs should be maintained to assure a satisfactory performance capability in water control activities. Appropriate coordination of such programs with similar activities in other areas will be accomplished to avoid duplication of effort, and to foster desirable exchange of ideas and developments. Initiative in re-evaluating methods and guidelines previously established in official documents referred to in paragraph (e) of this section is encouraged where needs are evident. However, proposals for major deviations from basic concepts, policies and general practices reflected in official publications will be submitted to CDR USACE (DAEN-CWE) WASH DC 20314 for concurrence or comment before being adopted for substantial application in actual project regulation at field level.

(h) *Directives and technical instruction manuals.* (1) Directives issued through OCE Engineer Regulations will be used to foster consistency in policies and basic practices. They will be supplemented as needed by other forms of communication.

(2) Engineering Manuals (EM) and Engineer Technical Letters (ETL) are issued by OCE to serve as general guidelines and technical aids in developing water control plans and manuals for individual projects or systems.

(3) EM 1110-2-3600 discusses principles and concepts involved in developing water control plans. Instructions relating to preparation of "Water Control Manuals for specific projects" are included. EM 1110-2-3600 should be used as a general guide to water control activities. The instructions are sufficiently flexible to permit adaptation to

specific regions. Supplemental information regarding technical methods is provided in numerous documents distributed to field offices as "hydrologic references."

(4) Special assistance in technical studies is available from the Hydrologic Engineering Center, Corps of Engineers, 609 Second Street, Davis, California 95616 and DAEN-CWE-HW.

(i) *Water control manuals for US Army Corps of Engineers projects.* (1) As used herein, the term "water control manual" refers to manuals that relate primarily to the functional regulation of an individual project or system of projects. Although such manuals normally include background information concerning physical features of projects, they do not prescribe rules or methods for physical maintenance or care of facilities, which are covered in other documents. (References 15 and 23, Appendix A.)

(2) Water control manuals prepared in substantially the detail and format specified in instructions referred to in paragraph 8 are required for all reservoirs under the supervision of the Corps of Engineers, regardless of the purpose or size of the project. Water Control manuals are also required for lock and dam, deregulation and major control structure projects that are physically regulated by the Corps of Engineers. Where there are several projects in a drainage basin with interrelated purposes, a "Master Manual" shall be prepared. The effects of non-Corps projects will be considered in appropriate detail, including an indication of provisions for interagency coordination.

(3) "Preliminary water control manuals," for projects regulated by the Corps of Engineers should contain regulation schedules in sufficient detail to establish the basic plan of initial project regulation.

(4) As a general rule, preliminary manuals should be superseded by more detailed interim or "final" manuals within approximately one year after the project is placed in operation.

(5) Each water control manual will contain a section on special regulations to be conducted during emergency situations, including droughts.

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Preplanned operations and coordination are essential to effective relief or assistance.

(6) One copy of all water control manuals and subsequent revisions shall be forwarded to DAEN-CWE-HW for file purposes as soon as practicable after completion, preferably within 30 days from date of approval at the division level.

(j) *Policies and requirements for preparing regulations for non-Corps projects.*

(1) Division and district commanders will develop water control plans as required by section 7 of the 1944 Flood Control Act, the Federal Power Act and section 9 of Pub. L. 436-83 for all projects located within their areas, in conformance with ER 1110-2-241, 33 CFR part 208. That regulation prescribes the policy and general procedures for regulating reservoir projects capable of regulation for flood control or navigation, except projects owned and operated by the Corps of Engineers; the International Boundary and Water Commission, United States and Mexico; those under the jurisdiction of the International Joint Commission, United States and Canada, and the Columbia River Treaty. ER 1110-2-241, 33 CFR part 208 permits the promulgation of specific regulations for a project in compliance with the authorizing acts, when agreement on acceptable regulations cannot be reached between the Corps Engineers and the owners. Appendix B provides a summary of the Corps of Engineers responsibilities for prescribing regulations for non-Corps reservoir projects.

(2) Water control plans will be developed and processed as soon as possible for applicable projects already completed and being operated by other entities, including projects built by the Corps of Engineers and turned over to others for operation.

(3) In so far as practicable, water control plans for non-Corps projects should be developed in cooperation with owning/operating agencies involved during project planning stages. Thus, tentative agreements on contents, including pertinent regulation schedules and diagrams, can be accomplished prior to completion of the project.

(4) The magnitude and nature of storage allocations for flood control or

navigation purposes in non-Corps projects are governed basically by conditions of project authorizations or other legislative provisions and may include any or all of the following types of storage assignments:

(i) Year-round allocations: Storage remains the same all year.

(ii) Seasonal allocations: Storage varies on a fixed seasonal basis.

(iii) Variable allocations of flood control from year to year, depending on hydrologic parameters, such as snow cover.

(5) Water control plans should be developed to attain maximum flood control or navigation benefits, consistent with other project requirements, from the storage space provided for these purposes. When reservoir storage capacity of the category referred to in paragraph (j)(4)(iii) is utilized for flood control or navigation, jointly with other objectives, the hydrologic parameters and related rules developed under provisions of ER 1110-2-241, 33 CFR part 208 should conform as equitably as possible with the multiple-purpose objectives established in project authorizations and other pertinent legislation.

(6) Storage allocations made for flood control or navigation purposes in non-Corps projects are not subject to modifications by the Corps of Engineers as a prerequisite for prescribing 33 CFR 208.11 regulations. However, regulations developed for use of such storage should be predicated on a mutual understanding between representatives of the Corps and the operating agency concerning the conditions of the allocations in order to assure reasonable achievement of basic objectives intended. In the event field representatives of the Corps of Engineers, and the operating agency are unable to reach necessary agreements after all reasonable possibilities have been explored, appropriate background explanations and recommendations should be submitted to DAEN-CWE-HW for consideration.

(7) The Chief of Engineers is responsible for prescribing regulations for use of flood control or navigation storage and/or project operation under the provisions of the referenced legislative acts. Accordingly, any regulations established should designate the division/

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district commander who is responsible to the Chief of Engineers as the representative to issue any special instructions required under the regulation. However, to the extent practicable, project regulations should be written to permit operation of the project by the owner without interpretations of the regulations by the designated representative of the Commander during operating periods.

(8) Responsibility for compliance with 33 CFR 208.11 regulations rests with the operating agency. The division or district commander of the area in which the project is located will be kept informed regarding project operations to verify reasonable conformance with the regulations. The Chief of Engineers or his designated representative may authorize or direct deviation from the established water control plan when conditions warrant such deviation. In the event unapproved deviations from the prescribed regulations seem evident, the division or district commander concerned will bring the matter to the attention of the operating agency by appropriate means.

If corrective actions are not taken promptly, the operating agency should be notified of the apparent deviation in writing as a matter of record. Should an impasse arise, in that the project owner or the designated operating entity persists in noncompliance with regulations prescribed by the Corps of Engineers, the Office of Chief Counsel should be advised through normal channels and requested to take necessary measures to assure compliance.

(9) Regulations should contain information regarding the required exchange of basic data between the representative of the operating agency and the U.S. Army Corps of Engineers, that are pertinent to regulation and coordination of interrelated projects in the region.

(10) All 33 CFR 208.11 regulations shall contain provisions authorizing the operating agency to temporarily deviate from the regulations in the event that it is necessary for emergency reasons to protect the safety of the dam, to avoid health hazards, and to alleviate other critical situations.

(k) *Developing and processing regulations for non-Corps projects.* Guidelines

concerning technical studies and development of regulations are contained in ER 1110-2-241, 33 CFR part 208 and EM 1110-2-3600. Appendix C of this regulation summarizes steps normally followed in developing and processing regulations for non-Corps projects.

(1) *Water control during project construction stage.* Water control plans discussed in preceding paragraphs are intended primarily for application after the dam, spillway and outlet structures; major relocations; land acquisitions, administrative arrangements and other project requirements have reached stages that permit relatively normal project regulation. With respect to non-Corps projects, regulations normally become applicable when water control agreements have been signed by the designated signatories, subject to special provisions in specific cases. In some instances, implementation of regulations has been delayed by legal provisions, contract limitations, or other considerations. These delays can result in loss of potential project benefits and possible hazards. Accordingly, it is essential that appropriate water control and contingency plans be established for use from the date any storage may accumulate behind a partially completed dam until the project is formally accepted for normal operations. Division commanders shall make certain that construction-stage regulation plans are established and maintained in a timely and adequate manner for projects under the supervision of the Corps of Engineers. In addition, the problems referred to should be discussed with authorities who are responsible for non-Corps projects, with the objective of assuring that such projects operate as safely and effectively as possible during the critical construction stage and any period that may elapse before regular operating arrangements have been established. These special regulation plans should include consideration for protection of construction operations; safety of downstream interests that might be jeopardized by failure of partially completed embankments; requirements for minimizing adverse effects on partially completed relocations or incomplete land acquisition; and the need for obtaining benefits from project storage

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that can be safely achieved during the construction and early operation period.

(m) *Advisories to OCE regarding water control activities*—(1) *General*. Division commanders will keep the Chief of Engineers currently informed of any unusual problems or activities associated with water control that impact on his responsibilities.

(2) *Annual division water control management report (RCS DAEN-CWE-16(R1))*. Division commanders will submit an annual report on water control management activities within their division. The annual report will be submitted to (DAEN-CWE-HW) by 1 February each year and cover significant activities of the previous water year and a description of activities to be accomplished for the current year. Funding information for water control activities will be provided in the letter of transmittal for in-house use only. The primary objective of this summary is to keep the Chief of Engineers informed regarding overall water management activities Corps-wide, thus providing a basis to carry out OCE responsibilities set forth in paragraph (g)(4) of this section.

(3) *Status of water control manuals*. A brief discussion shall be prepared annually by each division commander, as a separate section of the annual report on water control management activities discussed in paragraph (m)(2) of this section listing all projects currently in operation in his area, or expected to begin operation within one-year, with a designation of the status of water control manuals. The report should also list projects for which the Corps of Engineers is responsible for prescribing regulations, as defined in ER 1110-2-241, 33 CFR part 208.

(4) *Monthly water control charts (RCS DAEN-CWE-6 (R1))*. A monthly record of reservoirs/lakes operated by the Corps of Engineers and other agencies, in accordance with 33 CFR 208.11, will be promptly prepared and maintained by district/division commanders in a form readily available for transmittal to the Chief of Engineers, or others, upon request. Record data may be prepared in either graphical form as shown in EM 1110-2-3600, or tabular

form as shown in the sample tabulation in Appendix D.

(5) *Annual division water quality reports (RCS DAEN-CWE-15)*. By Executive Order 12088, the President ordered the head of each Executive Agency to be responsible for ensuring that all necessary actions are taken for prevention, control, and abatement of environmental pollution with respect to Federal facilities and activities under control of the agency. General guidance is provided in references 24 and 25, Appendix A, for carrying out this agency's responsibility. Annual division water quality reports are required by reference 24, Appendix A. The report is submitted in two parts. The first part addresses the division Water quality management plan while the second part presents specific project information. A major objective of this report is to summarize information pertinent to water quality aspects of overall water management responsibilities. The annual division water quality report may be submitted along with the annual report on water control management activities discussed in paragraph 13b above.

(6) *Master plans for water control data systems (RCS DAEN-CWE-21)*. (i) A water control data system is all of the equipment within a division which is used to acquire, process, display and distribute information for real-time project regulation and associated inter-agency coordination. A subsystem is all equipment as defined previously within a district. A network is all equipment as defined previously which is used to regulate a single project or a group of projects which must be regulated interdependently.

(ii) Master plans for water control data systems and significant revisions thereto will be prepared by division water control managers and submitted to DAEN-CWE-HW by 1 February each year for review and approval of engineering aspects. Engineering approval does not constitute funding approval. After engineering approval is obtained, equipment in the master plan is eligible for consideration in the funding processes described in ER 1125-2-301

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and engineering circulars on the annual budget request for civil works activities. Master plans will be maintained current and will:

(A) Outline the system performance requirements, including those resulting from any expected expansions of Corps missions.

(B) Describe the extent to which existing facilities fulfill performance requirements.

(C) Describe alternative approaches which will upgrade the system to meet the requirements not fulfilled by existing facilities, or are more cost effective than the existing system.

(D) Justify and recommend a system considering timeliness, reliability, economics and other factors deemed important.

(E) Delineate system scope, implementation schedules, proposed annual capital expenditures by district, total costs, and sources of funding.

(iii) Modified master plans should be submitted to DAEN-CWE-HW by 1 February, whenever revisions are required, to include equipment not previously approved or changes in scope or approach. Submittal by the February date will allow adequate time for OCE review and approval prior to annual budget submittals.

(iv) Division commanders are delegated authority to approve detailed plans for subsystems and networks of approved master plans. Plans approved by the division commander should meet the following conditions:

(A) The plan conforms to an approved master plan.

(B) The equipment is capable of functioning independently.

(C) An evaluation of alternatives has been completed considering reliability, cost and other important factors.

(D) The plan is economically justified, except in special cases where legal requirements dictate performance standards which cannot be economically justified.

(v) Copies of plans approved by the division commander shall be forwarded to appropriate elements in OCE in support of funding requests and to obtain approval of Automatic Data Processing Equipment (ADPE), when applicable.

(vi) Water control data systems may be funded from Plant Revolving Fund;

O&M General; Flood Control, MR&T, and Construction, General. Funding for water control equipment that serves two or more projects will be from Plant Revolving Fund in accordance with ER 1125-2-301. District and division water control managers will coordinate plant revolving fund requests with their respective Plant Replacement and Improvement Program (PRIP) representatives following guidance provided in ER 1125-2-301. Budget funding requests under the proper appropriation title should be submitted only if the equipment is identified in an approved master plan.

(vii) Justification for the Automatic Data Processing Equipment (ADPE) aspects of water control data systems must conform to AR 18-1, Appendix I or J as required. The "Funding for ADPE" paragraph in Appendixes I and J must cite the source of funds and reference relevant information in the approved master plan and detailed plan.

(viii) Division water control managers will submit annual letter summaries of the status of their respective water control systems and five-year plan for improvements. These summaries will be submitted to DAEN-CWE by 1 June for coordination with DAEN-CWO, CWB and DSZ-A, prior to the annual budget request. Summaries should not be used to obtain approval of significant changes in master plans. Sources of funding for all items for each district and for the division should be delineated so that total system expenditures and funding requests are identified. Changes in the master plan submitted 1 February should be documented in this letter summary if the changes were approved.

(7) *Summary of runoff potentials in current season (RCS DAEN-CWO-2).* (i) The Chief of Engineers and staff require information to respond to inquiries from members of Congress and others regarding runoff potentials. Therefore, the division commander will submit a snowmelt runoff and flood potential letter report covering the snow accumulation and runoff period, beginning generally in February and continuing monthly, until the potential no longer exist. Dispatch of supplemental reports will be determined by the urgencies of situations as they occur. The reports

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will be forwarded as soon as hydrologic data are available, but not later than the 10th of the month. For further information on reporting refer to ER 500-1-1, 33 CFR part 203.

(ii) During major drought situations or low-flow conditions, narrative summaries of the situation should be furnished to alert the Chief of Engineers regarding the possibility of serious runoff deficiencies that are likely to call for actions associated with Corps of Engineers reservoirs.

(iii) The reports referred to in paragraphs (m)(7) (i) and (ii) of this section will include general summaries regarding the status of reservoir storage, existing and forecasted at the time of the reports.

(8) *Reports on project operations during flood emergencies.* Information on project regulations to be included in reports submitted to the Chief of Engineers during flood emergencies in accordance with ER 500-1-1 include rate of inflow and outflow in CFS, reservoir levels, predicted maximum level and anticipated date, and percent of flood control storage utilized to date. Maximum use should be made of computerized communication facilities in reporting project status to DAEN-CWO-E/CWE-HW in accordance with the requirements of ER 500-1-1, 33 CFR part 203.

(9) *Post-flood summaries of project regulation.* Project regulation effects including evaluation of the stage reductions at key stations and estimates of damages prevented by projects will be included in the post flood reports required by ER 500-1-1, 33 CFR part 203.

(n) *Water Control Management Boards.* (1) The Columbia River Treaty Permanent Engineering Board was formed in accordance with the Columbia River Treaty with Canada. This board, composed of U.S. and Canadian members, oversees the implementation of the Treaty as carried out by the U.S. and Canadian Entities.

(2) The Mississippi River Water Control Management Board was established by ER 15-2-13. It consists of the Division Commanders from LMVD, MRD, NCD, ORD, and SWD with the Director of Civil Works serving as chairman. The purposes of the Board are:

(i) To provide oversight and guidance during the development of basin-wide management plans for Mississippi River Basin projects for which the US Army Corps of Engineers has operation/regulation responsibilities.

(ii) To serve as a forum for resolution of water control problems among US Army Corps of Engineers Divisions within the Mississippi River Basin when agreement is otherwise unobtainable.

(o) *List of projects.* Projects owned and operated by the Corps of Engineers subject to this regulation are listed with pertinent data in Appendix E. This list will be updated periodically to include Corps projects completed in the future. Federal legislation, Federal regulations and local agreements have given the Corps of Engineers wide responsibilities for operating projects which it does not own. Non-Corps projects subject to this regulation are included in Appendix A of ER 1110-2-241.

**APPENDIX A TO § 222.5—REFERENCES**

1. The Federal Power Act, Pub. L. 436-83, approved 10 June 1920, as amended (41 Stat. 1063; 16 U.S.C. 791(a))
2. Section 3 of the Flood Control Act approved 22 June 1936, as amended (49 Stat. 1571; 33 U.S.C. 701(c))
3. Section 9(b) of Reclamation Project Act of 1939, approved 4 August 1939 (53 Stat. 1187; 43 U.S.C. 485)
4. Section 7 of the Flood Control Act approved 22 December 1944 (58 Stat. 890; 33 U.S.C. 709)
5. Section 5 of Small Reclamation Projects Act of 6 August 1956, as amended (70 Stat. 1046; 43 U.S.C. 422(e))
6. Section 9 of Pub. L. 436-83d Congress (68 Stat. 303)
7. The Fish and Wildlife Coordination Act of 1958, Pub. L. 85-624
8. The Federal Water Project Recreation Act Uniform Policies, Pub. L. 89-72
9. The National Environmental Policy Act of 1969, Pub. L. 91-190
10. The Clean Water Act of 1977, Pub. L. 95-217
11. Executive Order 12088, Federal Compliance with Pollution Control Standards, 13 October 1978
12. 33 CFR 208.10, Local flood protection works; maintenance and operation of structures and facilities (9 FR 9999; 9 FR 10203)
13. 33 CFR 208.11, Regulations for use of Storage Allocated for Flood Control or Navigation and/or Project Operation at Reservoirs

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- subject to Prescription of Rules and Regulations by the Secretary of the Army in the Interest of Flood Control and Navigation (43 FR 47184)
- 14. AR 18-1
  - 15. ER 11-2-101
  - 16. ER 15-2-13
  - 17. ER 500-1-1, 33 CFR part 203
  - 18. ER 1110-2-241, 33 CFR part 208
  - 19. ER 1110-2-1400
  - 20. ER 1110-2-1402
  - 21. ER 1110-2-1941
  - 22. ER 1125-2-301
  - 23. ER 1130-2-303
  - 24. ER 1130-2-334
  - 25. ER 1130-2-415
  - 26. ER 1130-2-417
  - 27. ER 1130-2-419
  - 28. EM 1110-2-3600

### APPENDIX B TO § 222.5—SUMMARY OF CORPS OF ENGINEERS RESPONSIBILITIES FOR PRESCRIBING REGULATIONS FOR NON-CORPS RESERVOIR PROJECTS

#### Summary

1. (a) "Regulations for Use of Storage Allocated for Flood Control or Navigation and/or Project Operation at Reservoirs subject to Prescription of Rules and Regulations by the Secretary of the Army in the Interest of Flood Control and Navigation" (33 CFR 208.11) prescribe the responsibilities and general procedures for regulating reservoir projects capable of regulation for flood control or navigation and the use of storage allocated for such purposes and provided on the basis of flood control and navigation, except projects owned and operated by the Corps of Engineers; the International Boundary and Water Commission, United States and Mexico; and those under the jurisdiction of the International Joint Commission, United States and Canada, and the Columbia River Treaty.

(b) Pertinent information on projects for which regulations are prescribed under Section 7 of the 1944 Flood Control Act, (Pub. L. 78-58 Stat. 890 (33 U.S.C. 709)) the Federal Power Act (41 Stat. 1063 (16 U.S.C. 791(A))) and Section 9 of Pub. L. 436-83d Congress (68 Stat. 303) is published in the FEDERAL REGISTER in accordance with 33 CFR 208.11.

Publication in the FEDERAL REGISTER establishes the fact and the date of a project's regulation plan promulgation.

2. Section 7 of Act of Congress approved 22 December 1944 (58 Stat. 890; 33 U.S.C. 709), reads as follows:

"Hereafter, it shall be the duty of the Secretary of War to prescribe regulations for the use of storage allocated for flood control or navigation at all reservoirs constructed wholly or in part with Federal funds provided on the basis of such purposes, and the operation of any such project shall be in accordance with such regulations: *Provided*,

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That this section shall not apply to the Tennessee Valley Authority, except that in case of danger from floods on the Lower Ohio and Mississippi Rivers the Tennessee Valley Authority is directed to regulate the release of water from the Tennessee River into the Ohio River in accordance with such instructions as may be issued by the War Department."

3. Section 9(b) of the Reclamation Project Act of 1939, approved 4 August 1939 (53 Stat. 1189, 43 U.S.C. 485), provides that the Secretary of the Interior may allocate to flood control or navigation as part of the cost of new projects or supplemental works; and that in connection therewith he shall consult with the Chief of Engineers and may perform any necessary investigations under a cooperative agreement with the Secretary of the Army. These projects are subject to 33 CFR 208.11 regulations.

4. Several dams have been constructed by State agencies under provisions of legislative acts wherein the Secretary of the Army is directed to prescribe rules and regulations for project operation in the interest of flood control and navigation. These projects are subject to 33 CFR 208.11 regulations.

5. There are few dams constructed under Emergency Conservation work authority or similar programs, where the Corps of Engineers has performed major repairs or rehabilitation, that are operated and maintained by local agencies which are subject to 33 CFR 208.11 regulations.

6. The Federal Power Act, approved 10 June 1920, as amended (41 Stat. 1063, 16 U.S.C. 791 (A)), established the Federal Power Commission, now Federal Energy Regulatory Commission (FERC), with authority to issue licenses for constructing, operating, and maintaining dams or other project works for the development of navigation, for utilization of water power and for other beneficial public uses in any streams over which Congress has jurisdiction. The Chief of Engineers is called upon for advice and assistance as needed in formulating reservoir regulation requirements somewhat as follows:

a. In response to requests from the FERC, opinions and technical appraisals are furnished by the Corps of Engineers for consideration prior to issuance of licenses by the FERC. Such assistance may be limited to general presentations, or may include relatively detailed proposals for water control plans, depending upon the nature and scope of projects under consideration. The information furnished is subject to such consideration and use as the Chairman, FERC, deems appropriate. This may result in inclusion of simple provisions in licenses without elaboration, or relatively detailed requirements for reservoir regulation schedules and plans.

b. Some special acts of Congress provide for construction of dams and reservoirs by non-Federal agencies or private firms under

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licenses issued by the FERC, subject to stipulation that the operation and maintenance of the dams shall be subject to reasonable rules and regulations of the Secretary of the Army in the interest of flood control and navigation. Ordinarily no Federal funds are involved, thus Section 7 of the 1944 Flood Control Act does not apply. However, if issuance of regulations by the Secretary of the Army is required by the authority under which flood control or navigation provisions are included as functions of the specific project or otherwise specified in the FERC license, regulation plans will be prescribed in accordance with 33 CFR 208.11 regulations.

7. Projects constructed by the Corps of Engineers for local flood protection purposes are subject to conditions of local cooperation as provided in Section 3 of the Flood Control Act approved 22 June 1936, as amended. One of those conditions is that a responsible local agency will maintain and operate all works after completion in accordance with regulations prescribed by the Secretary of the Army. Most such projects consist mainly of levees and flood walls with appurtenant drainage structures. Regulations for operation and maintenance of these projects has been prescribed by the Secretary of the Army in 33 CFR 208.10. When a reservoir is included in such a project, it may be appropriate to apply 33 CFR 208.10 in establishing regulations for operation, without requiring their publication in the **FEDERAL REGISTER**. For example, if the reservoir controls a small drainage area, has an uncontrolled flood control outlet with automatic operation or contains less than 12,500 acre-feet of flood control or navigation storage, 33 CFR 208.10 may be suitable. However, 33 CFR 208.11 regulations normally would be applicable in prescribing flood control regulations for the individual reservoir, if the project has a gated flood control outlet by which the local agency can regulate floods.

8. Regulation plans for projects owned by the Corps of Engineers are not prescribed in accordance with 33 CFR 208.11. However, regulation plans for projects constructed by the Corps of Engineers and turned over to other agencies or local interests for operation may be prescribed in accordance with 33 CFR 208.11.

9. The Small Reclamation Projects Act of 6 August 1956 provides that the Secretary of the Interior may make loans or grants to local agencies for the construction of reclamation projects. Section 5 of the Act provides in part that the contract covering any such grant shall set forth that operation be in accordance with regulations prescribed by the head of the Federal department or agency primarily concerned. Normally, 33 CFR 208.11 is not applicable to these projects.

**APPENDIX C TO § 222.5—PROCEDURES FOR DEVELOPING AND PROCESSING REGULATIONS FOR NON-CORPS PROJECTS IN CONFORMANCE WITH 33 CFR 208.11**

1. *Sequence of actions.* a. Discussions leading to a clarification of conditions governing allocations of storage capacity to flood control or navigation purposes and project regulation are initiated by District/Division Engineers through contacts with owners and/or operating agencies concerned at regional level.

b. Background information on the project and conditions requiring flood control or navigation services, and other relevant factors, are assembled by the District Engineer and incorporated in a "Preliminary Information Report". The Preliminary Information Report will be submitted to the Division Engineer for review and approval. Normally, the agency having jurisdiction over the particular project is expected to furnish information on project features, the basis for storage allocations and any other available data pertinent to the studies. The Corps of Engineers supplements this information as required.

c. Studies required to develop reservoir regulation schedules and plans usually will be conducted by Corps of Engineers personnel at District level, except where the project regulation affects flows in more than one district, in which case the studies will be conducted by or under supervision of Division personnel. Assistance as may be available from the project operating agency or others concerned will be solicited.

d. When necessary agreements are reached at district level, and regulations developed in accordance with 33 CFR 208.11 and EM 1110-2-3600, they will be submitted to the Division Commander for review and approval, with information copies for DAEN-CWE-HW. Usually the regulations include diagrams of operating parameters.

e. For projects owned by the Bureau of Reclamation, the respective Regional Directors are designated as duly authorized representatives of the Commissioner of Reclamation. By letter of 20 October 1976, the Commissioner delegated responsibilities to the Regional Directors as follows: "Regarding the designated authorization of representatives of the Commissioner of Reclamation in matters relating to the development and processing of Section 7 flood control regulations, we are designating each Regional Director as our duly authorized representative to sign all letters of understanding, water control agreements, water control diagrams, water control release schedules and other documents which may become part of the prescribed regulations.

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The Regional Director also will be responsible for obtaining the signature of the designated operating agency on these documents where such is required. Regarding internal coordination within the Bureau of Reclamation, the Regional Directors will obtain the review and approval of this office and at appropriate offices with our Engineering and Research Center, Denver, Colorado, prior to signing water control documents."

f. In accordance with the delegation cited in paragraph e, 33 CFR 208.11 regulations pertaining to Bureau of Reclamation projects will be processed as follows:

(1) After regulation documents submitted by District Commanders are reviewed and approved by the Division Commander they are transmitted to the respective Regional Director of the Bureau of Reclamation for concurrence of comment, with a request that tracings of regulation diagrams be signed and returned to the Division Commander.

(2) If any questions arise at this stage appropriate actions are taken to resolve differences. Otherwise, the duplicate tracings of the regulation diagram are signed by the Division Commander and transmitted to the office of the project owner for filing.

(3) After full agreement has been reached in steps (1) and (2), the text of proposed regulations is prepared in final form. Copies of any diagrams involved are included for information only.

(4) A letter announcing completion of action on processing the regulations, with pertinent project data as specified in paragraph 208.11(d)(11) of 33 CFR 208.11, and one copy of the signed tracings of diagrams are forwarded to HQDA (DAEN-CWE-HW) WASH DC 20314 for promulgation and filing. The of-

fice of the Chief of Engineers will forward the pertinent project data to the Liaison Officer with the Federal Register, requesting publication in the FEDERAL REGISTER.

g. Regulations developed in accordance with 33 CFR 208.11 and applicable to projects that are not under supervision of the Bureau of Reclamation are processed in substantially the manner described above. All coordination required between the Corps of Engineers and the operating agency will be accomplished at field level.

h. Upon completion of actions listed above, Division Commanders are responsible for informing the operating agencies at field level that regulations have been promulgated.

2. *Signature blocks:* Some 33 CFR 208.11 regulations contain diagrams of parameter curves that cannot be published in the FEDERAL REGISTER, but are made a part thereof by appropriate reference. Each diagram bears a title block with spaces for the signature of authenticating officials of the Corps of Engineers and the owner/operating agency of the project involved.

3. *Designation of Corps of Engineers Representatives.* Division Commanders are designated representatives of the Chief of Engineers in matters relating to development and processing of 33 CFR 208.11 regulations for eventual promulgation through publication of selected data specified in paragraph (d)(11) § 208.11. Division Commanders are designated as the Corps of Engineers signee on all letters of understanding, water control agreements and other documents which may become part of prescribed regulations for projects located in their respective geographic areas, and which are subject to the provisions of 33 CFR 208.11.

### APPENDIX D TO § 222.5—SAMPLE TABULATION

Bardwell Lake, Monthly Lake Report, May 1975

Day	Elevations 0800: 2,400 feet-MSL	Storage 2400 A-F	Evap DSF	Pump DSF	Release DSF	Inflow adj. DSF	Rain, inch
1 .....	421.30	421.31	55979	28	2.0	0	.84
2 .....	421.32	421.37	56196	5	2.0	0	.117
3 .....	421.43	421.44	56449	23	1.9	0	.152
4 .....	421.45	421.47	56558	1	1.8	0	.058
5 .....	421.49	421.34	56088	1	2.0	324	.50
6 .....	421.20	421.01	54902	14	1.9	.632	.50
7 .....	420.88	420.89	54473	4	2.0	.269	.59
8 .....	420.89	420.91	54544	5	2.3	0	.044
9 .....	420.90	420.89	54473	11	1.5	0	.038
10 .....	420.90	420.90	54509	28	3.0	0	.027
11 .....	420.91	421.35	56124	26	1.8	0	.824
12 .....	421.54	421.65	57213	31	2.1	0	.582
13 .....	421.70	421.75	57578	29	2.2	0	.216
14 .....	421.78	421.76	57614	34	1.9	249	.303
15 .....	421.69	421.52	56739	22	1.9	.643	.225
16 .....	421.39	421.28	55871	39	2.1	.535	.138
17 .....	421.19	421.09	55188	10	2.2	.393	.119
18 .....	421.03	421.05	55045	46	2.0	.143	.060
19 .....	421.04	421.07	55116	17	2.3	0	.055
20 .....	421.06	421.30	55943	21	2.1	0	.440
21 .....	421.39	421.47	56558	20	2.1	0	.332
22 .....	421.50	421.39	56268	42	2.1	247	.145
23 .....	421.37	424.91	69726	31	2.0	328	.7146

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## APPENDIX D TO § 222.5—SAMPLE TABULATION—Continued

Bardwell Lake, Monthly Lake Report, May 1975

Day	Elevations 0800: 2,400 feet-MSL		Storage 2400 A-F	Evap DSF	Pump DSF	Release DSF	Inflow adj. DSF	Rain, inch
24 .....	425.61	426.15	74825	22	2.0	0	2595	2.38
25 .....	426.15	426.55	76523	18	2.3	0	876	.11
26 .....	426.72	426.80	77598	42	2.1	0	586	.00
27 .....	426.95	427.00	78465	23	2.0	0	462	.00
28 .....	427.14	427.15	79116	31	2.1	0	361	.19
29 .....	427.31	427.70	81528	61	1.9	0	1279	.20
30 .....	427.94	428.05	83082	11	2.0	0	796	1.02
31 .....	428.20	428.22	83837	7	2.1	0	389	.00
Monthly total:								
(DSF) .....			.....	700	64	3763	18626	7.74
(A-F) .....			27966	1389	126	7464	36945	.....

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**APPENDIX E TO § 222.5—LIST OF PROJECTS**

Project name <sup>1</sup>	State/county	Stream <sup>1</sup>	Project pur- pose <sup>2</sup>	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis <sup>3</sup>
					Upper	Lower	Upper	Lower	
Lower Mississippi Valley Division									
Alligator—Catfish FG .....	MS Issaquena .....	Little Sunflower .....	F	0.0	0.0	0.0	0	0	FCA Jun 36.
Arkabutla Lk .....	MS Desoto .....	Coldwater .....	F	525.0	238.3	209.3	33,400	5,100	FCA Jun 36.
Ascalmore—Tippo FG & CS .....	MS Tallahatchie .....	Ascalmore .....	F	0.0	136.0	118.0	0	0	FCA Jun 36.
Bienvenue FG .....	LA St Bernard .....	Bayou Bienvenue .....	F	0.0	2.0	2.0	0	0	PL 298-89.
Big Lk Ditch #81 CS .....	AR Mississippi .....	Ditch 81 Extension. ....	C	0.0	0.0	230.0	0	0	FCA Oct 65.
Big Lk Div CS .....	AR Mississippi .....	Little R .....	C	0.0	0.0	230.0	0	0	FCA Oct 65.
Big Lk North End CS .....	AR Mississippi .....	Little R .....	C	0.0	0.0	230.0	0	0	FCA Oct 65.
Big Lk South end CS .....	AR Mississippi .....	Ditch 28 .....	C	0.0	0.0	230.0	0	0	FCA Oct 65.
Birds Point—New Madrid Div Floodway.	MO New Madrid .....	Mississippi .....	F	0.0	330.5	328.5	131,000	71,000	FCA May 28.
Bodcau Lk .....	LA Bossier .....	Bayou Bodcau .....	F	35.3	199.5	157.0	21,000	110	PL 74-839.
Bonnet Carre Div Spillway .....	LA St Charles .....	Mississippi R .....	F	0.0	24.0	20.0	0	0	FCA May 28.
Bowman Lock .....	LA Vermilion .....	GIWW .....	I	0.0	1.2	1.2	0	0	PL 79-14.
Caddo Lk .....	LA Caddo .....	Cypress Bayou .....	N	128.6	182.7	168.5	59,000	26,800	FCA Oct 65.
Cairo 10th & 20th St PS .....	IL Pulaski .....	Ohio .....	F	0.0	310.5	299.0	0	0	PL 90-483.
Calcasieu SW Barrier & Lock .....	LA Calcasieu .....	Calcasieu R .....	I	0.0	1.2	1.2	0	0	RHA Oct 62. PL 79-525.
Calion L&D .....	AR Union .....	Ouachita .....	N	0.0	77.0	77.0	12,200	12,200	RHA 1950.
Calumet FG East & West .....	LA St Mary .....	Wax Lake Outlet Bayou Teche. ....	FN	0.0	3.0	3.0	0	0	FCA Jun 36.
Cannon Re-reg .....	MO Ralls .....	Salt R .....	PCA	5.8	528.0	521.0	1,020	460	HD 507.
Carlyle Lk .....	IL Clinton .....	Kaskaskia R .....	F	699.0	462.5	445.0	50,440	24,580	SD 44.
Catahoula Lk CS .....	LA LaSalle .....	Catahoula Div .....	CR	118.0	34.0	27.0	25,000	94	RHA 1960.
Catfish Point CS .....	LA Cameron .....	Mermen tau R .....	FN	0.0	1.2	1.2	0	0	FCA Aug 41, RHA Jul 64.
Charenton FG .....	LA St Mary .....	Grand Lk .....	FN	0.0	0.0	0.0	0	0	RHA Jul 46, FCA May 28.
Cocodrie FG FG .....	LA Concorida .....	Bayou Cocodrie .....	F	0.0	46.0	13.0	0	0	FCA Aug 41.
Collins Cr .....	MS Warren .....	Collins Cr .....	F	0.0	84.0	67.0	0	0	FCA 1941.
Columbia L&D .....	LA Caldwell .....	Ouachita .....	N	0.0	52.0	52.0	7,070	7,070	RHA 1950.
Connerly CS .....	AR Chicot .....	Connerly Bayou .....	FCR	0.0	116.0	106.0	0	0	FCA Aug 68.
Courtaleau Drainage CS .....	LA St Landry .....	Bayou Courtaleau .....	F	0.0	18.0	16.0	0	0	FCA May 28, PL 391-70.
Darbonne CS .....	LA St. Landry .....	Bayou Darbonne .....	FI	0.0	18.0	16.0	0	0	FCA May 28, PL 391-70.
DeGray LK .....	AR Desoto .....	Caddo .....	FNPMPRA	881.9	423.0	345.0	23,800	6,400	RHA 1950, WSA 1958.
DeGray Rereg. St .....	AR Clark .....	Caddo .....	NMRA	3.6	221.0	209.0	430	90	RHA 1950, WSA 1958.
Ditch Bayou Dam .....	AR Chicot .....	Ditch Bayou .....	FCR	0.0	106.0	93.0	0	0	FCA Aug 68.
Drainage Dist #17 PS .....	AR Mississippi .....	Ditch 71 .....	F	3.0	236.0	228.0	4,100	0	FCA Aug 68, PL 90-483.
Drinkwater PS .....	MO Mississippi .....	Drinkwater Sewer .....	F	20.6	315.0	307.0	4,000	700	FCA May 50, PL 516.
Dupre FG .....	LA St. Bernard .....	Bayou Dupre .....	F	0.0	2.0	2.0	0	0	PL 298-89.
East St Louis PS .....	IL St. Clair .....	IDD .....	F	0.0	0.0	0.0	0	0	FC Act 36.
Empire FG Hurr Prot & Lock .....	LA Plaque mines .....	Mississippi R .....	F	0.0	5.0	5.0	0	0	PL 874-87.
Enid Lk .....	MS Yalobusha .....	Yacona .....	F	660.0	268.0	230.0	28,000	6,100	FCA Jun 36.

Felsenthal L&D .....	AR Union .....	Ouachita .....	N	32.5	70.0	65.0	46,500	17,500	RHA 1950.
Finley Street PS .....	TN Dyer .....	Forked Deer .....	F	0.5	269.0	257.0	94	22	FCA 1948, PL 85-500.
Freshwater Lock .....	LA Vermilion .....	Freshwater Bayou .....	I	0.0	0.0	0.0	0	0	PL 86-645.
Graham Burke PS .....	AR Phillips .....	White .....	F	2,805.0	174.8	140.0	149,000	2,500	FCA May 28, PL 85-500.
Grenada Lk .....	MS Grenada .....	Yalobusha Skuna .....	F	1,357.4	231.0	193.0	64,600	9,800	FCA Jun 36.
Huxtable PS .....	AR Lee .....	St Francis .....	F	2,863.0	207.2	165.0	18,500	1,400	FCA May 50.
Jonesville L&D .....	LA Catahoula .....	Black .....	N	0.0	34.0	34.0	7,120	7,120	RHA 1950.
Kaskaskia L&D .....	IL Randolph .....	Kaskaskia R .....	N	1.1	368.0	363.0	1,300	1,200	SD 44.
L&D 1 .....	LA Catahoula .....	Red R .....	N	0.0	40.0	40.0	0	0	PL 90-483.
L&D 2 .....	LA Rapides .....	Red R .....	N	0.0	71.2	64.0	0	0	PL 90-483.
L&D 3 .....	LA Rapides .....	Red R .....	N	0.0	95.0	91.5	0	0	PL 90-483.
L&D 4 .....	LA Natchitoches .....	Red R .....	N	0.0	120.0	119.6	0	0	PL 90-483.
L&D 5 .....	LA Red R .....	Red R .....	N	0.0	145.0	140.2	0	0	PL 90-483.
L&D 24 .....	MO Pike .....	Mississippi R .....	N	29.7	449.0	445.0	13,000	12,000	R&H Act, Jul 3/30.
L&D 25 .....	MO Lincoln .....	Mississippi R .....	N	49.7	434.0	429.7	18,000	16,600	R&H Act, Jul 3/30.
L&D 26 .....	IL Madison .....	Mississippi R .....	N	107.1	419.0	414.0	30,000	27,700	R&H Act, Aug 30/35.
Larose to Golden Meadow Hurr Prot FG.	LA LaFourche .....	Bayou LaFourche .....	F	0.0	3.0	3.0	0	0	R&H Act, Jul 3/30.
Little Sun flower CS .....	MS Issaquena .....	Lit. Sunflower .....	F	0.0	85.0	60.0	0	0	R&H Act, Aug 30/35.
Lk #9 Culvert & PS .....	KY Fulton .....	Mississippi .....	F	6.5	286.0	282.0	0	0	R&H Act, Aug 30/35.
Lk Chicot PS .....	AR Chicot .....	Macon Lk .....	FCR	0.0	118.2	90.0	0	0	R&H Act, 8/30/35.
Lk Greeson .....	AR Pike .....	Little Missouri .....	P	0.0	563.0	436.9	0	0	R&H Act, 8/30/1935.
Lk Ouachita .....	AR Garland .....	Ouachita .....	FP	407.9	563.0	504.0	9,800	2,500	FCA Oct 65, PL 89-298.
Long Branch DS .....	LA Catahoula .....	Catahoula Div .....	F	0.0	32.5	32.5	0	0	FCA Dec 44.
Mark Twain Lk .....	MO Ralls .....	Salt R .....	F	894.0	638.0	606.0	38,400	18,600	FCA May 50.
Marked Tree Siphon .....	AR Poinsett .....	St. Francis .....	PMCAR	457.0	606.0	567.2	18,600	5,900	HD 507.
Morganza Div CS .....	LA Point Coupee .....	Morganza Floodway .....	F	0.0	229.0	198.3	0	0	HD 507.
Muddy Bayou CS .....	MS Warren .....	Muddy Bayou .....	FC	30.0	76.9	70.0	4,350	2,860	FCA Jun 30.
Old River Div CS Low Sill Overbank & Aux.	LA W. Feliciana .....	Old R .....	F	0.0	70.0	5.0	0	0	FCA May 28.
Old River Lock .....	LA W Feliciana .....	Old R .....	N	0.0	65.4	10.0	0	0	FCA Aug 41, GD 359-77.
Port Allen Lock .....	LA Port Allen .....	GIWW .....	N	0.0	46.1	2.6	0	0	RHA Jul 46.
Prairie Dupont East & West PS .....	IL St Clair .....	IDD .....	F	0.0	0.0	0.0	0	0	FC Act 62.
Rapides-Boeuf Div Canal CS .....	LA Rapides .....	Bayou Rapides .....	F	0.0	66.0	62.2	0	0	FCA Sep 54, PL 780-83.
Rend Lk .....	IL Franklin .....	Big Muddy R .....	F	109.0	405.0	410.0	24,800	18,900	FCA Aug 41.
Sardis Lk .....	MS Panola .....	Little Sunflower .....	MA	160.0	405.0	391.3	18,900	5,400	HD 541.
Schooner Bayou CS & Lock .....	LA Vermilion .....	Schooner Bayou .....	F	1,569.9	281.4	236.0	58,500	10,700	FCA Oct 65.
Shelbyville Lk .....	IL Shelby .....	Kaskaskia R .....	F	474.0	626.5	599.7	25,300	11,100	FCA Jun 36.
Sorrell Lock .....	LA Iberville .....	GIWW .....	NMCAR	180.0	599.7	573.0	11,100	3,000	HD 232.
St Francis Lk CS .....	AR Poinsett .....	Oak Donnick Floodway .....	C	0.0	29.7	3.5	0	0	FCA Jun 36.
Steele Bayou CS .....	MS Issaquena .....	Steele Bayou .....	F	0.0	0.0	210.0	0	2,240	FCA 1941.
Tchula Lk Lower FG .....	MS Humphreys .....	Tchula Lk .....	F	0.0	68.5	60.0	0	0	FCA Jun 36.

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## § 222.5

**§ 222.5**

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**APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued**

Project name <sup>1</sup>	State/county	Stream <sup>1</sup>	Project pur- pose <sup>2</sup>	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis <sup>3</sup>
					Upper	Lower	Upper	Lower	
Tchula Lk Upper FG .....	MS Humphreys .....	Tchula Lk .....	F	0.0	108.0	92.0	0	0	FCA Jun 36.
Teche-Vermilion PS & CS .....	LA St Mary .....	Atchafalaya R .....	MI	0.1	18.0	16.0	0	0	PL 89-789, FCA May 28.
Tensas-Cocodrie PS .....	LA Concordia .....	Bayou Cocodrie .....	F	0.0	37.0	23.0	0	0	FCA Oct 65.
Treasure Island PS .....	MO Dunklin .....	Little R .....	F	23.4	252.0	235.0	7,800	180	FCA Jul 46.
Wallace Lk .....	LA Caddo .....	Cypress Bayou .....	F	96.1	158.0	142.0	9,300	2,300	RHA Mar 45, PL 75-761.
Wappapello Lk .....	MO Wayne .....	St Francis R .....	F	613.2	394.7	354.7	23,200	5,200	HD 159.
Wasp Lk .....	MS Humphreys .....	Wasp Lk-Bear Cr .....	F	0.0	111.6	88.5	0	0	FCA Jun 36.
West Hickman PS .....	KY Fulton .....	Mississippi .....	F	0.0	302.0	296.0	9	4	FCA 1948.
Wood R PS .....	IL Madison .....	IDD .....	F	0.0	0.0	0.0	0	0	FC Act 38.
Yazoo City PS .....	MS Yazoo .....	Yazoo .....	F	0.0	96.0	69.0	0	0	FCA Jun 36.

**Missouri River Division**

Bear Creek Dam & Res .....	CO Jefferson .....	Bear Cr .....	F	28.8	5,635.5	5,558.0	718	109	PL 90-483.
Big Bend Dam & Lk Sharpe .....	SD Lyman Buffalo Hughes.	Missouri R .....	FCR	1.9	5,558.0	5,528.0	109	17	SD 87-90.
			F	61.0	1,423.0	1,422.0	61,000	60,000	PL 78-534.
Blue Springs Dam & Lk .....	MO Jackson .....	Little Blue R .....	FNPIMCAR	117.0	1,422.0	1,420.0	60,000	57,000	SD 247-78.
			F	15.8	820.0	802.0	982	722	PL 90-483.
Blue Stem Lake & Dam 4 .....	NE Lancaster .....	Olive Br. Salt Creek .....	FRC	10.8	802.0	760.0	722	0	HD 169-90.
			F	7.2	1,322.5	1,307.4	660	315	PL 85-500.
Bowman-Haley Dam & Res .....	ND Bowman .....	No Fk Grand River .....	FCR	3.0	1,307.4	1,277.0	315	1	HD 396-84.
			F	72.7	2,777.0	2,754.8	5,131	1,732	PL 87-874.
Branched Oak Lk & Dam 18 .....	NE Lancaster .....	Oak Creek trib. Salt Creek.	FMCR	15.5	2,754.8	2,740.0	1,732	565	HD 574-87.
			F	71.6	1,311.0	1,284.0	3,640	1,780	PL 85-500.
Bull Hook Dam .....	MT Hill .....	Bull Hook Cr Scott Coulee.	FCR	26.0	1,284.0	1,250.0	1,780	0	HD 396-84.
			F	6.5	2,593.0	2,540.0	283	0	PL 78-534.
Cedar Canyon Dam .....	SD Pennington .....	Deadman's Gulch .....	F	0.1	3,545.0	3,526.0	11	2	PL 80-858.
Chatfield Dam & Res .....	CO Douglas .....	S Platte .....	F	204.7	5,500.0	5,432.0	4,742	1,412	PL 81-516.
			FQ	26.7	5,432.0	5,385.0	1,412	12	HD 669-80.
Cherry Cr Dam & Res .....	CO Araphahoe .....	Cherry Cr .....	F	80.0	5,598.0	5,550.0	2,637	852	PL 77-228.
			FR	14.0	5,550.0	5,504.0	852	0	HD 426-76, PL 78-534.
Clinton Dam & Lk .....	KS Douglas .....	Wakarusa R .....	F	267.8	903.4	875.5	12,891	7,006	PL 87-874.
			FMCAR	129.2	875.5	820.0	7,006	0	SD 122-87.
Cold Brook Dam & Res .....	SD Fall River .....	Cold Brook .....	F	6.7	3,651.4	3,585.0	198	36	PL 77-228.
			FR	0.5	3,585.0	3,548.0	36	0	HD 655-76.
Conestoga Lake & Dam 12 .....	NE Lancaster .....	Holmes Cr Trib to Salt Cr.	F	8.0	1,252.0	1,232.9	620	230	PL 85-500.
			FCR	2.6	1,232.9	1,197.0	230	1	HD 396-84.
Cottonwood Springs Dam & Res .....	SD Fall River .....	Cottonwood Springs Cr	F	7.7	3,936.0	3,875.0	214	44	PL 77-228.
			FR	0.2	3,875.0	3,868.0	44	30	HD 655-76.

Fort Peck Dam & Res .....	MT Valley, Mc Cone Garfield.	Missouri R .....	F	977.0	2,250.0	2,246.0	249,000	240,000	PL 73-409.
			FNPIMCAR	13,649.0	2,246.0	2,160.0	240,000	92,000	PL 75-529, HD 238-73. PL 78-534, SD 247-78.
Fort Randall Dam, Lk Francis Case ...	SD Gregory Charles .....	Missouri R .....	F	985.0	1,375.0	1,365.0	102,000	95,000	PL 78-534.
Garrison Dam, Lk Sakakawea .....	ND Mercer McLean .....	Missouri R .....	FNPIMCAR	3,021.0	1,365.0	1,320.0	95,000	41,000	SD 247-78.
Gavins Point Dam, Lewis & Clark Lk	SD Yankton .....	Missouri R .....	F	1,494.0	1,854.0	1,850.0	382,000	365,000	PL 78-534.
Glenn Cunningham Lk, Dam 11 .....	NE Douglas .....	Little Papillion Cr .....	FNPIMCAR	17,440.0	1,850.0	1,775.0	365,000	129,000	SD 247-78.
Harlan County Lk .....	NE Harlan .....	Republican R .....	F	61.0	1,210.0	1,208.0	32,000	29,000	PL 78-534.
Harry S Truman Dam & Res .....	MO Benton .....	Osage R .....	FRCA	95.0	1,208.0	1,204.5	29,000	25,000	SD 247-78.
Hillsdale Lk .....	KS Miami .....	Big Bull Cr .....	F	14.0	1,142.0	1,121.0	922	392	PL 90-483.
Holmes Park Lk & Dam 17 .....	NE Lancaster .....	Antelope Cr Trib to Salt Cr.	FNMCAR	3.9	1,121.0	1,085.0	392	0	HD 349-90.
Kanopolis Lk .....	KS Ellsworth .....	Smoky Hill R .....	F	498.0	1,973.5	1,946.0	23,064	13,249	PL 77-228.
Kelly Road Dam .....	CO Araphoe .....	Westerly Cr .....	FI	342.6	1,946.0	1,875.0	13,249	0	HD 892-76, PL-78-534.
Long Branch Lk .....	MO Randolph .....	Little East Fk Chariton R	F	4,005.9	739.6	706.0	209,300	55,600	PL 83-780.
Longview Lk .....	MO Jackson .....	Little Blue R .....	FPCR	1,203.4	706.0	635.0	55,600	0	HD 549-81, PL 87-874.
Melvern Lk .....	KS Osage .....	Marais des Cygnes R ....	F	83.6	931.0	917.0	7,410	4,580	PL 83-780.
Milford Lk .....	KS Geary .....	Republican R .....	FNMCAR	76.3	917.0	852.4	4,580	0	HD 642-81.
Oahe Dam & Lk .....	ND 4 Counties .....	Missouri R .....	F	5.7	1,266.0	1,242.4	410	100	PL 85-500.
Olive Cr Lk & Dam 2 .....	NE Lancaster .....	Olive Br of Salt Cr .....	FCR	0.8	1,242.4	1,218.0	100	3	HD 396-84.
Papio Dam Site #18 & Lk .....	NE Douglas .....	Boxelder Cr Papio Cr ....	F	370.0	1,508.0	1,463.0	13,999	3,560	PL 75-761.
Papio Dam Site #20 & Lk .....	NE Sarpy .....	Trib South Branch Papio	FI	55.8	1,463.0	1,425.0	3,560	0	PL 78-534, HD 842-76.
Pawnee Lk & Dam 14 .....	NE Lancaster .....	No. Middle Cr of Salt Cr	FCAR	0.3	5,362.0	5,342.0	38	0	PL 80-858, PL 84-99.
Perry Lk .....	KS Jefferson .....	Delaware R .....	F	30.4	801.0	791.1	3,670	2,429	PL 89-298.
Pipestem Dam & Res .....	ND Stutsman .....	Pipestem Cr .....	FNPIMCAR	34.6	791.0	751.1	2,429	0	HD 238-89.
Pomme De Terre Lk .....	MO Polk .....	Pomme De Terre R .....	F	24.8	909.0	891.0	1,960	930	PL 90-483.
Pomona Lk .....	KS Osage .....	110 Mile Cr .....	FNPICAR	22.1	891.0	810.0	930	0	HD 169-90.
			F	208.4	1,057.0	1,036.0	13,948	6,928	PL 83-780.
				154.4	1,036.0	960.0	6,928	0	PL 75-761, HD 549-81.
				756.7	1,176.2	1,144.4	27,255	17,270	PL 83-780.
				388.8	1,144.4	1,080.0	15,709	0	HD 642-81, PL 75-761.
				1,097.0	1,620.0	1,617.0	373,000	359,000	PL 78-534.
				16,789.0	1,617.0	1,540.0	359,000	117,000	SD 247-78.
				4.0	1,350.0	1,335.0	355	174	HD 396-84.
				1.5	1,335.0	1,314.0	174	4	PL 85-500.
				7.1	1,128.2	1,110.0	595	255	PL 90-483.
				3.4	1,110.0	1,060.5	255	0	HD 349-90.
				6.1	1,113.1	1,096.0	493	246	PL 90-483.
				2.7	1,096.0	1,069.0	246	10	HD 349-90.
				21.0	1,263.5	1,244.3	1,470	728	PL 85-500.
				8.5	1,244.3	1,206.0	728	1	HD 396-84.
				521.9	920.6	891.5	25,342	12,202	PL 83-780.
				243.2	891.5	825.0	122	0	HD 642-81.
				137.0	1,496.3	1,442.4	4,754	885	PL 89-298.
				9.6	1,442.4	1,415.0	885	62	HD 266-89.
				407.2	874.0	839.0	15,980	7,890	PL 75-761.
				241.6	839.0	750.0	7,890	0	HD 549-81, PL 83-780.
				176.8	1,003.0	974.0	8,520	400	PL 83-780.

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**APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued**

Project name <sup>1</sup>	State/county	Stream <sup>1</sup>	Project pur- pose <sup>2</sup>	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis <sup>3</sup>
					Upper	Lower	Upper	Lower	
Rathbun Lk .....	IA Appanoose .....	Chariton R .....	FNMAR F	70.6 346.3	974.0 926.0	912.0 904.0	4,000 20,948	0 11,013	HD 549–81. PL 83–780.
Smithville Lk .....	MO Clay .....	Little Platte R .....	FNM F	205.4 101.8	904.0 876.2	844.0 864.2	11,013 9,995	0 7,192	HD 561–81. PL 89–298.
Spring Gulch Imbankment .....	CO Douglas .....	Spring Gulch .....	FMCAR F	144.6 1.8	864.2 5,600.00	799.0 5,535.0	7,192 88	0 0	HD 262–89. PL 81–516, HD 669–80.
Stagecoach Lk & Dam 9 .....	NE Lancaster .....	Hickman Br of Salt Cr .....	FRC F	4.7 1.9	1,285.0 1,271.1	1,271.1 1,246.0	490 196	196	PL 85–500. HD 396–84.
Standing Bear Lk & Dam 16 .....	NE Douglas .....	Trib Big Papillion Cr .....	FRC F	3.7 1.5	1,121.0 1,104.0	1,104.0 1,060.0	302 137	137	PL 90–483. HD 349–90.
Stockton Lk .....	MO Cedar .....	Sac R .....	FARPN F	779.6 887.1	892.0 867.0	867.0 760.0	38,288 24,777	24,777	PL 83–780. HD 549–89.
Tuttle Creek Lk .....	KS Riley .....	Big Blue R .....	F	1,937.4	1,136.0	1,075.0	54,179	14,875	PL 75–761.
Twin Lakes & Dam 13 .....	NE Seward .....	Middle Cr Salt Cr .....	FN F	177.1 5.3	1,075.0 1,355.0	1,061.0 1,341.0	14,875 505	0	HD 842–76. PL 85–500.
Wagon Train Lk & Dam 8 .....	NE Lancaster .....	Hickman Br of Salt Cr .....	CFR F	2.8 6.8	1,341.0 1,302.0	1,306.0 1,287.8	255 660	1	PL 85–500. HD 396–84.
Wehrspann Lk & Dam 20 .....	NE Sarpy .....	Trib South Branch Papio .....	FCR F	2.5 6.1	1,287.8 1,113.1	1,260.0 1,096.0	303 493	246	PL 90–483. HD 349–90.
Wilson Lk .....	KS Russell .....	Saline R .....	FCAR F	530.7 247.8	1,554.0 1,516.0	1,516.0 1,440.0	19,980 9,040	9,040	PL 78–534. SD 191–78, SD 247–78.
Yankee Hill Lk & Dam 10 .....	NE Lancaster .....	Cardwell Br of Salt Cr .....	FRC F	5.6 2.0	1,262.0 1,244.9	1,244.9 1,218.0	475 208	208	PL 85–500. HD 396–84.

**North Atlantic Division**

Almond Lake .....	NY Steuben .....	Canacadea Cr .....	F	14.6	1,300.0	1,255.0	489	124	PL 74–738.
Alvin R. Bush Dam .....	PA Clinton .....	Kettle Cr .....	F	73.4	937.0	840.0	1,430	160	FCA Sep 54.
Arkport Dam .....	NY Steuben .....	Canisteo R .....	F	8.0	1,304.0	1,218.0	192	0	PL 74–738.
Aylesworth Cr Lk .....	PA Lackawanna .....	Aylesworth Cr .....	F	1.7	1,150.0	1,108.0	87	7	PL 87–874.
Beltzville Dam & Lk .....	PA Carbon, Monroe .....	Pohopoco Cr .....	F	27.0	651.0	628.0	1,411	947	PL 87–874.
Bloomington Lk .....	MD Garret .....	North Branch Potomac R .....	FMA F	39.8 36.2	628.0 1,500.0	537.0 1,466.0	947 1,184	113 952	PL 87–874.
Blue Marsh Dam & Lk .....	PA Lebanon Berks .....	Tulpehocken CR .....	F FMA	92.0 27.1	1,466.0 307.0	1,255.0 290.0	952 2,159	42 1,147	PL 87–874.
Cowanesque Lk .....	PA Tioga .....	Cowanesque R .....	F F	19.9 82.0	290.0 1,117.0	261.0 1,045.0	1,147 2,060	323 410	PL 85–500.
Curwensville Lk .....	PA Clearfield .....	West Branch Susque- hanna R .....	F	114.7	1,228.0	1,162.0	3,020	790	FCA Sep 54.
East Sidney Lk .....	NY Delaware .....	Ouleout Cr .....	F	30.2	1,203.0	1,150.0	1,100	210	PL 74–738.
Foster Joseph Sayers Dam .....	PA Centre .....	Bald Eagle Cr .....	F	70.2	657.0	630.0	3,450	1,730	FCA Sept 54.

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Francis E. Walter Dam & Res .....	PA Carbon, Luzerne, Monroe.	Lehigh R .....	F	107.8	1,450.0	1,300.0	1,830	80	PL 79-526.
Gathright Dam & Lk Moomaw .....	VA Alleghany, Bath .....	Jackson R .....	F	79.9	1,610.0	1,582.0	3,160	2,530	PL 79-526.
General Edgar Jadwin Dam .....	PA Wayne .....	Dyberry Cr .....	AR	60.7	1,582.0	1,554.0	2,530	1,780	
Prompton Dam & Res .....	PA Wayne .....	W Br Lackawaxen R .....	F	24.5	1,053.0	973.0	659	0	PL 80-858.
Raystown Lk .....	PA Huntingdon .....	Raystown Br .....	F	48.5	1,205.0	1,125.0	910	290	PL 80-858.
Stillwater Lk .....	PA Susquehanna .....	Lackawanna R .....	FR	248.0	812.0	786.0	10,800	8,300	PL 87-874.
Tioga-Hammond Lakes Hammond .....	PA Tioga .....	Crooked Cr .....	F	514.0	786.0	622.8	8,300	150	
Tioga-Hammond Lakes Tioga .....	PA Tioga .....	Tioga R .....	F	11.6	1,621.0	1,572.0	422	83	PL 77-228.
Whitney Piont Lk .....	NY Broome .....	Otselic R .....	F	54.2	1,131.0	1,086.0	1,770	680	PL 85-500.
York Indian Rock Dam .....	PA York .....	Codorus Cr .....	F	52.5	1,131.0	1,081.0	1,630	470	PL 85-500.
				66.5	1,010.0	973.0	3,340	1,200	PL 74-738.
				28.0	435.0	370.0	1,430	0	PL 74-738.

**North Central Division**

Badhill Dam & Res .....	ND Barnes .....	Sheyenne R .....	FM	68.6	1,266.0	1,257.2	5,430	4,430	FCA Dec 44.
Brandon Road L&D .....	IL Will .....	Illinois R .....	N	8.0	539.0	538.0	300	250	PL 71-126.
Cedars L&D .....	WI Outagamie .....	Fox R .....	N	1.8	703.6	698.7	255	140	RHA of 1882, 1885.
Coralville Dam & Res .....	IA Johnson .....	Iowa R .....	F	439.0	712.0	680.0	24,800	3,580	PL 75-761.
Depree L&D .....	WI Brown .....	Fox R .....	C	40.3	680.0	652.0	3,580	0	PL 75-761.
Dresden Island L&D .....	IL Grundy .....	Illinois R .....	N	9.4	591.0	586.7	926	0	PL 71-126.
Eau Galle Dam & Res .....	WI Pierce .....	Eau Galle R .....	FCR	1.6	940.0	938.5	1,500	1,350	PL 78-534.
Farmdale Dam .....	IL Tazwell .....	Farm Cr .....	F	11.3	616.0	551.0	385	0	PL 78-534.
Fondulac Dam .....	IL Tazwell .....	Fondulac Cr .....	F	2.3	579.0	530.0	97	0	PL 78-534.
Gull Lk Dam & Res .....	MN Cass .....	Gull R .....	N	70.4	1,194.0	1,192.7	13,100	12,700	RHA 1899.
Highway 75 Dam & Res .....	MN Bigstone, Lacqui, Parle .....	Minnesota R .....	FC	11.1	952.3	947.3	2,790	910	FCA Oct 65.
Homme Dam & Res .....	ND Walsh .....	Parke R .....	FM	3.7	1,080.0	1,074.0	190	176	FCA of 22 Dec 44.
L&D 1 .....	MN Hennepin, Ramsey .....	Mississippi R .....	N	13.0	725.1	722.8	5,800	5,500	RHA 1910.
L&D 2 .....	MN Dakota, Wash .....	Mississippi R .....	N	8.0	687.2	686.5	11,810	11,000	RHA 1927.
L&D 3 .....	MN Goodhue, Pierce .....	Mississippi R .....	N	17.8	675.0	674.0	17,950	17,650	RHA 1930.
L&D 4 .....	WI Wabasha, Buffalo .....	Mississippi R .....	N	18.0	667.0	666.5	38,820	36,600	RHA 1930.
L&D 5 .....	MN Winona, Buffalo .....	Mississippi R .....	N	6.2	660.0	659.5	12,680	12,000	RHA 1930.
L&D 5A .....	MN Winona, Buffalo .....	Mississippi R .....	N	7.2	651.0	650.0	7,500	7,000	RHA 1930.
L&D 6 .....	MN Winona .....	Mississippi R .....	N	8.4	645.5	644.5	8,870	8,000	RHA 1930.
L&D 7 .....	MN Winona .....	Mississippi R .....	N	2.6	639.0	639.0	13,440	13,400	RHA 1930.
L&D 8 .....	WI LaCrosse .....	Mississippi R .....	N	20.4	631.0	630.0	20,800	20,000	RHA 1930.
L&D 9 .....	WI Vernon .....	Mississippi R .....	N	28.7	620.0	619.0	29,125	28,300	RHA 1930.
L&D 10 .....	WI Crawford .....	Mississippi R .....	N	16.8	611.0	610.0	17,070	16,500	RHA 1930.
L&D 11 .....	IA Clayton .....	Mississippi R .....	N	19.1	603.1	602.0	21,100	20,000	PL 71-520.
L&D 12 .....	WI Grant .....	Mississippi R .....	N	12.2	592.1	591.0	13,000	12,400	PL 71-520.
L&D 13 .....	IL Whiteside .....	Mississippi R .....	N	24.2	583.1	582.0	30,000	28,500	PL 71-520.
L&D 14 .....	IA Scott .....	Mississippi R .....	N	9.0	572.1	571.0	10,500	9,980	PL 71-520.
L&D 15 .....	IL Rock Island .....	Mississippi R .....	N	5.5	561.1	559.0	3,725	3,540	PL 71-520.

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APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name <sup>1</sup>	State/county	Stream <sup>1</sup>	Project pur- pose <sup>2</sup>	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis <sup>3</sup>
					Upper	Lower	Upper	Lower	
L&D 16 .....	IL Rock Island .....	Mississippi R .....	N	12.1	545.1	544.0	13,000	12,400	PL 71-520.
L&D 17 .....	IL Mercer .....	Mississippi R .....	N	7.5	537.1	536.0	7,580	7,200	PL 71-520.
L&D 18 .....	IL Henderson .....	Mississippi R .....	N	11.0	529.1	528.0	13,300	12,600	PL 71-520.
L&D 19 .....	IA Lake .....	Mississippi R .....	N	55.0	518.2	517.2	33,500	31,800	PL 71-520.
L&D 20 .....	MO Lewis .....	Mississippi R .....	N	5.8	481.5	476.5	7,960	7,550	PL 71-520.
L&D 21 .....	IL Adams .....	Mississippi R .....	N	8.6	470.1	469.6	9,390	8,910	PL 71-520.
L&D 22 .....	MO Polke .....	Mississippi R .....	N	8.4	459.6	459.1	8,660	8,230	PL 71-520.
Lac qui Parle Dam & Res .....	MN Chippewa Swift .....	Minnesota R .....	FC	119.3	941.1	931.2	13,500	6,400	FCA of 22 Jun 36.
Lagrange L&D .....	IL Brown .....	Illinois R .....	N	0.0	429.0	429.0	10,500	10,500	PL 73-184.
Leech Lake Dam & Res .....	MN Cass .....	Leech R .....	N	300.2	1,295.7	1,293.2	139,000	107,200	RHA of 1882 1895.
Little Kaukauna L&D .....	WI Brown .....	Fox R .....	N	3.6	601.0	592.8	447	42.0	RHA of 1882 1885.
Little Chute L&D .....	WI Outagamie .....	Fox R .....	N	0.4	694.2	688.9	74	67	RHA of 1882 1885.
Lockport Lock .....	IL Will .....	Chicago San Ship Canal	FNP	2.7	579.0	577.5	1,850	1,800	RHA 1930.
Lower Appleton L&D .....	WI Outagamie .....	Fox R .....	N	0.2	710.9	706.3	43	40	RHA of 1882 1895.
Marseilles Lk & Dam .....	IL LaSalle .....	Illinois R .....	N	0.7	483.0	482.8	1,400	1,320	PL 71-126.
Marsh Lake Dam & Res .....	MN Swift, Lacqui, Parle .....	Minnesota R .....	FC	23.9	941.1	937.6	8,650	5,150	FCA Jun 36.
Menasha Dam Lk Winnebago .....	WI Winnebago .....	Fox R .....	FN	452.0	746.8	743.5	181,120	168,500	
Mount Morris Dam .....	NY Livingston .....	Genesee R .....	F	337.4	760.0	585.0	3,300	0	PL 74-738.
O'Brien L&D .....	IL Cook .....	Calumet .....	N	0.3	581.9	578.2	50	50	RHA of 1946.
Peoria L&D .....	IL Peoria .....	Illinois R .....	N	0.0	440.0	440.0	27,800	27,800	PL 73-184.
Pine Dam & Res .....	MN Crow Wing .....	Pine R .....	N	40.4	1,230.3	1,227.3	13,900	13,000	RHA of 1899.
Pokegama Dam & Res .....	MN Itasca .....	Mississippi R .....	N	52.4	1,274.4	1,270.3	13,700	12,000	RHA of 1899.
Rapid Croche L&D .....	WI Outagamie .....	Fox R .....	N	3.4	608.5	602.1	568	0	RHA 1885.
Red Lake Dam & Res .....	MN Clearwater .....	Red Lake R .....	FA	1,810.0	1,174.0	1,173.5	288,800	287,300	FCA Dec 44.
Red Rock Dam & Res .....	IA Marion .....	Des Moines R .....	F	1,670.0	780.0	728.0	65,400	8,000	PL 75-761.
Reservation Control Res .....	MN Traverse .....	.....	R	72.0	728.0	690.0	8,000	0	PL 75-761.
Sandy Lake Dam & Res .....	SD Roberts .....	.....	FC	58.8	981.0	976.0	12,400	10,950	FCA 1936.
Saylorville Dam & Res .....	MN Aitkin .....	Sandy R .....	N	37.5	1,218.3	1,214.3	10,600	8,200	RHA of 1899.
St Anthony Falls Lwr L&D .....	IA Polk .....	Des Moines R .....	F	586.0	890.0	836.0	16,700	5,950	FCA 1936.
St Anthony Falls Up L&D .....	MN Hennepin .....	Mississippi R .....	N	0.0	750.0	750.0	50	50	RHA of 1937 1945.
Starved Rock L&D .....	IL LaSalle .....	Mississippi R .....	N	17.4	801.0	799.0	8,800	8,600	RHA of 1937 1945.
Upper Appleton L&D .....	WI Outagamie .....	Illinois R .....	N	1.0	459.0	458.0	1,155	1,020	PL 69-100.
Upper Kaukauna L&D .....	WI Outagamie .....	Fox R .....	N	7.4	738.7	735.4	1,171	1,040	RHA of 1882 1885.
White Rock Dam & Res .....	MN Traverse .....	Bois De Sioux .....	FC	1.1	656.8	652.8	134	115	RHA of 1882 1885.
Winnibigoshish Dam & Res .....	SD Roberts .....	.....		78.6	981.0	972.0	10,500	4,000	FCA 1936.
Winnibigoshish Dam & Res .....	MN Cass Itasca .....	Mississippi R .....	N	98.7	1,300.9	1,296.9	98,700	62,000	RHA of 1899.

## New England Division

Ball Mountain Lk .....	VT Windham .....	West R .....	F	52.4	1,017.0	830.5	810	20	PL 78-534, 83-780.
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Barre Falls Dam .....	MA Worcester .....	Ware R .....	F	24.0	807.0	761.0	1,400	0	PL 78-228.
Birch Hill Dam .....	MA Worcester .....	Millers R .....	F	49.9	852.0	815.0	3,200	0	PL 75-761.
Black Rock Lk .....	CT Litchfield .....	Branch Brook .....	F	8.5	520.0	437.0	190	21	PL 86-45.
Blackwater Dam .....	NH Merrimack .....	Blackwater R .....	F	46.0	566.0	515.0	3,280	0	PL 75-111.
Buffumville Lk .....	MA Worcester .....	Little R .....	F	11.3	524.0	492.5	530	200	PL 77-228.
Colebrook River Lk .....	CT Litchfield .....	West Branch .....	F	50.2	761.0	708.0	1,185	750	PL 86-645.
Conant Brook Dam .....	MA Hampden .....	Conant Brook .....	F	3.7	757.0	694.0	158	0	PL 86-645.
East Brimfield Lk .....	MA Hampden, Worcester..	Quinebaug R .....	F	29.9	653.0	632.0	2,300	360	PL 77-228.
Edward MacDowell Lk .....	NH Hillsboro .....	Nubanusit Brook .....	F	12.8	946.0	911.0	840	165	PL 75-111.
Everett Lk .....	NH Hillsboro, Merrimack .....	Piscataquog R .....	F	91.5	418.0	340.0	2,900	130	PL 75-761.
Franklin Falls Dam .....	NH Belknap, Merrimack .....	Pemigewasset R .....	F	150.6	389.0	307.0	2,800	440	PL 75-111.
Hancock Brook Lk .....	CT Litchfield .....	Hancock Brook .....	F	3.9	484.0	460.0	266	40	PL 86-645.
Hodges Village Dam .....	MA Worcester .....	French R .....	F	13.3	501.0	465.5	740	0	PL 77-228.
Hop Brook Lk .....	CT New Haven .....	Hop Brook .....	F	6.9	364.0	310.0	270	21	PL 86-645.
Hopkinton Lk .....	NH Merrimack .....	Contocook R .....	F	70.1	416.0	380.0	3,700	220	PL 75-761.
Knightville Dam .....	MA Hampshire .....	Westfield R .....	F	49.0	610.0	480.0	960	0	PL 75-761.
Littleville Lk .....	MA Hampden, Hampshire..	Middle Br, Westfield R .....	F	23.0	576.0	518.0	510	275	PL 85-500.
Mansfield Hollow Lk .....	CT Tolland .....	Natchaug R .....	F	49.2	257.0	205.5	1,880	200	PL 77-228.
New Bedford-Fairhaven Hurr Barrier .....	MA Bristol .....	.....	F	0.0	0.0	0.0	0	0	PL 85-500.
North Hartland Lk .....	VT Windsor .....	Ottauquechee R .....	F	68.8	546.5	425.0	1,100	215	PL 75-761.
North Springfield Lk .....	VT Windsor .....	Black R .....	F	50.0	545.5	467.0	1,200	100	PL 75-761.
Northfield Br Lk .....	CT Litchfield .....	Northfield Br .....	F	2.4	576.0	500.0	67	7	PL 86-645.
Otter Br Lk .....	NH Cheshire .....	Otter Brook .....	F	17.6	781.0	701.0	374	70	PL 83-780.
Stamford Hurr Barrier .....	CT Fairfield .....	.....	F	0.0	0.0	0.0	0	0	PL 86-645.
Surry Mountain Lk .....	NH Cheshire .....	Ashuelot R .....	F	31.7	550.0	500.0	970	260	PL 75-761.
Thomaston Dam .....	CT Litchfield .....	Naugatuck R .....	F	42.0	494.0	380.0	960	0	PL 78-534.
Townshend Lk .....	VT Windham .....	West R .....	F	32.9	553.0	478.0	735	95	PL 78-534, PL 83-780.
Tully Lk .....	MA Worcester .....	East Br Tully R .....	F	20.5	668.0	636.0	1,130	78	PL 75-761.
Union Village Dam .....	VT Orange .....	Ompompanoosuc R .....	F	38.0	564.0	420.0	740	0	PL 74-738.
West Hill Dam .....	MA Worcester .....	West R .....	F	12.4	264.0	234.0	1,025	0	PL 78-534.
West Thompsons .....	CT Windham .....	Quinebaug R .....	F	25.6	342.5	305.0	1,250	200	PL 86-645.
Westville Lake .....	MA Worcester .....	Quinebaug R .....	F	11.0	572.0	525.0	913	23	PL 77-228.

North Pacific Division

Albeni Falls Dam, Lk Pend, Oreille ...	ID Bonner .....	Pend Oreille R .....	FNP	1,155.0	2,062.5	2,049.7	95,000	86,000	PL 81-516.
Applegate Lk .....	OR Jackson .....	Applegate R .....	FIR	75.2	1,987.0	1,854.0	988	221	FCA 1962, PL 87-874, PL 87-874.
Big Cliff Dam .....	OR Marion, Linn .....	N Santiam R .....	P	3.5	1,206.0	1,182.0	130	98	HD 544, PL 75-761, PL 87-874.
Blue River Lk .....	OR Lane .....	Blue R .....	F	6.5	1,357.0	1,350.0	975	940	HD 531.
Bonneville L&D Lk .....	WA Skamania .....	Columbia R .....	FNI	78.8	1,350.0	1,180.0	940	133	PL 81-516.
Chena River Lakes .....	AK North Star Borough .....	Chena R .....	F	34.0	506.7	490.0	5,400	400	RHA 1935.
Chief Joseph Dam Rufus Woods Lk .....	WA Douglas, Okanogan .....	Columbia R .....	P	192.3	956.0	930.0	8,400	6,800	PL 90-483.
Cottage Grove Lk .....	OR Lane .....	Coast Fk, Willamete R .....	F	29.8	791.0	750.0	1,155	295	HD 693, PL 79-525.
Cougar Lk .....	OR Lane .....	South Fk .....	F	11.3	1,699.0	1,690.0	1,280	1,235	HD 531.

## APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name <sup>1</sup>	State/county	Stream <sup>1</sup>	Project pur- pose <sup>2</sup>	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis <sup>3</sup>
					Upper	Lower	Upper	Lower	
Detroit Lk .....	OR Marion .....	North Santiam .....	FNPI P FNPI P	143.9 9.9 281.6 40.3	1,690.0 1,532.0 1,569.0 1,450.0	1,532.0 1,516.0 1,563.0 1,425.0	1,235 3,490 3,455 3,455	635 635 3,455 1,725	PL 81-516. PL 83-870. HD 544, PL 75-761.
Dexter Dam .....	OR Lane .....	Middle Fk, Willamette R	FNPI F FNI FNI	4.8 5.5 65.0 107.5	695.0 835.0 832.0 830.0	690.0 832.0 770.5 728.0	990 1,885 1,815 1,760	940 1,815 520 460	HD 544, PL 75-761. HD 544. PL 75-761.
Dorena Lk .....	OR Lane .....	Cow R .....	FNI FNI	7.5 15.7	834.0 375.1	830.0 373.5	1,865 1,260	1,760 1,195	HD 544. PL 81-516
Dworshak Dam and Res .....	ID Clearwater .....	North Fk, Clearwater R	FNP FNI FNI FNI	2,016.0 1,600.0 107.5 93.9	1,445.0 1,445.0 728.0 353.0	1,425.0 1,425.0 728.0 637.0	17,090 1,865 1,760 9,340	9,050 1,865 1,760 1,515	HD 403, PL 87-874. HD 531. PL 81-516
Fall Cr Dam and Lk .....	OR Lane .....	Fall Cr .....	FNI FNI FNI FNI	4.9 24.9 18.3 249.9	641.0 637.0 1,015.0 1,010.0	637.0 613.0 1,010.0 992.0	1,260 1,195 3,705 3,605	1,195 1,195 3,605 9,340	HD 544. PL 86-645 HD 531. PL 81-516, PL 83-780.
Fern Ridge Lk .....	OR Lane .....	Long Tom R .....	F FNI FNI FNI	15.7 93.9 4.9 194.6	375.1 373.5 641.0 1,541.0	373.5 353.0 637.0 1,448.0	10,305 9,340 1,260 2,710	9,340 1,515 1,195 1,575	HD 544. PL 75-761.
Foster Lake .....	OR Linn .....	South Santiam R .....	F FNPI FNPI FNPI	24.9 18.3 249.9	637.0 1,015.0 1,010.0	613.0 1,010.0 992.0	1,195 3,705 3,605	895 3,605 3,605	HD 544. PL 81-516
Green Peter Lk .....	OR Linn .....	Middle Fk, Santiam R .....	F FNPI FNPI FNPI	18.3 249.9 1,010.0 5.6	1,015.0 1,010.0 992.0 1,543.0	1,010.0 992.0 992.0 1,541.0	3,705 2,072 2,072 2,850	3,605 2,072 2,072 2,710	HD 531. PL 81-516, PL 83-780.
Hills Creek Lk .....	OR Lane .....	Middle Fk, Willamette R	FNPI FNPI FNPI FNPI	194.6 80.0 25.6 24.9	1,541.0 1,206.0 1,141.0 440.0	1,448.0 1,141.0 1,040.0 437.0	2,710 1,750 763 8,370	1,575 763 13 8,210	PL 81-516.
Howard Hanson Dam .....	WA King .....	Green R .....	F FA FA NP	80.0 25.6 25.6 24.9	1,206.0 1,141.0 1,141.0 440.0	1,141.0 1,040.0 1,040.0 437.0	1,750 763 763 8,370	13 13 13 8,210	HD 531. PL 81-516.
Ice Harbor Dam Lk Sacajawea .....	WA Walla, Walla, Frank- lin.	Snake R .....	F FNPI FNPI FNPI FNPI	192.0 12.2 12.2 825.0 926.0	262.0 825.0 819.0 825.0	257.0 819.0 2,090 825.0	49,000 2,090 1,860 4,255	42,000 1,860 2,090 2,090	HD 531. PL 81-516.
John Day Dam Lk Umatilla .....	OR Sherman .....	Columbia R .....	F FNP F FP	158.0 150.0 192.0 4,979.5	268.0 265.0 262.0 2,459.0	265.0 262.0 262.0 2,287.0	55,000 52,000 49,000 46,365	52,000 49,000 49,000 14,391	HD 531. PL 81-516.
Libby Dam Lk Koocanusa .....	MT Lincoln .....	Kootenai R .....	F F F FP	49.0 192.0 12.2 4,979.5	638.0 633.0 819.0 2,459.0	633.0 10,030 2,090 46,365	9,620 9,620 1,860 14,391	HD 531, PL 81-516. HD 704, PL 79-14.	
Little Goose L&D Lk Bryan .....	WA Columbia, Whitman	Snake R .....	PN P P FNPI	49.0 12.2 12.2 926.0	638.0 825.0 825.0 825.0	633.0 819.0 819.0 825.0	10,030 2,090 2,090 4,255	9,620 1,860 1,860 2,090	HD 531, PL 81-516. HD 704, PL 79-14.
Lookout Point Lk .....	OR Lane .....	Middle Fk, Willamette R	NPI P P FNPI	324.2 315.0 43.6 13.9	926.0 1,872.0 738.0 3,060.0	825.0 1,751.0 733.0 3,055.0	4,255 3,430 8,900 2,817	2,090 1,800 8,540 2,745	PL 75-761. HD 566, PL 87-874. HD 704, PL 79-14. PL 79-526.
Lost Creek Lk .....	OR Jackson .....	Rogue R .....	FPIR NPI F FI	264.4 315.0 43.6 13.9	3,055.0 1,872.0 738.0 3,060.0	2,905.0 1,751.0 733.0 3,055.0	2,817 3,430 8,900 2,817	802 1,800 8,540 802	HD 566, PL 87-874. HD 704, PL 79-14.
Lower Granite L&D .....	WA Garfield, Whitman ..	Snake R .....	NPI F FI	264.4 264.4 264.4	3,055.0 2,905.0 2,905.0	2,905.0 1,751.0 733.0	2,817 3,430 8,900	2,745 1,800 8,540	PL 79-526.
Lucky Peak Dam and Lk .....	ID Ada .....	Boise R .....	FI NP	20.0	540.0	537.0	6,700	6,550	HD 704, PL 79-14.
Lwr Monumental L&D Lk HG West ...	WA Walla, Walla, Frank- lin.	Snake R .....	NP	185.0	340.0	335.0	38,800	36,000	HD 704, PL 79-14.
McNary L&D, Dam Lk Wallula .....	WA Benton .....	Columbia R .....	NP	185.0	340.0	335.0	38,800	36,000	HD 704, PL 79-14.
Mill Creek Dam Lk .....	WA Walla, Walla .....	Mill Cr .....	F	7.5	1,265.0	1,205.0	225	53	HD 578, PL 75-761.
Mud Mountain Dam .....	WA King, Pierce .....	White R .....	F	106.3	1,215.0	895.0	963	0	PL 74-738.
The Dalles L&D Lk Celilo .....	WA Klickitat .....	Columbia R .....	NP	52.5	160.0	155.0	11,200	10,350	HD 531, PL 81-516.
Willow Creek Lk .....	OR Morrow .....	Willow Cr .....	F	11.6	2,113.5	2,047.0	269	96	PL 89-298.

Wynochee Dam and Lk .....	WA Grays, Harbor .....	Wynochee R .....	FMCA	65.4	800.0	700.0	1,170	193	HD 601, PL 93-251.
Ohio River Division									
Allegheny L&D 2 .....	PA Allegheny .....	Allegheny R .....	N	0.0	721.0	710.0	0	0	RHA 1935.
Allegheny L&D 3 .....	PA Allegheny .....	Allegheny R .....	N	0.0	734.5	721.0	0	0	RHA 1935.
Allegheny L&D 4 .....	PA Allegheny Westmoreland.	Allegheny R .....	N	0.0	745.0	734.5	0	0	RHA 1912.
Allegheny L&D 5 .....	PA Armstrong .....	Allegheny R .....	N	0.0	756.8	745.0	0	0	RHA 1912
Allegheny L&D 6 .....	PA Armstrong .....	Allegheny R .....	N	0.0	769.0	756.8	0	0	RHA 1912.
Allegheny L&D 7 .....	PA Armstrong .....	Allegheny R .....	N	0.0	782.1	769.0	0	0	RHA 1912.
Allegheny L&D 8 .....	PA Armstrong .....	Allegheny R .....	N	0.0	800.0	782.1	0	0	RHA 1912, 1935.
Allegheny L&D 9 .....	PA Armstrong .....	Allegheny R .....	N	0.0	822.0	800.0	0	0	RHA 1935.
Allegheny Res Kinzua Dam .....	PA Warren .....	Allegheny R .....	F	607.0	1,365.0	1,328.0	21,180	12,080	PL 74-738.
Alum Cr Lk .....	OH Delaware .....	Alum Cr .....	FPCAR	549.0	1,328.0	1,240.0	12,080	1,900	PL 87-874.
Atwood Lk .....	OH Tuscarawas .....	Indian Fk Cr .....	F	53.1	901.0	888.0	4,852	3,387	
Barkley Dam Lk Barkley .....	Ky Lyon, Livgst .....	Cumberland R .....	FMCR	79.2	888.0	885.0	3,387	3,105	
Barren River Lk .....	KY Allen, Barren .....	Barren R .....	FCR	26.1	941.0	928.0	2,460	1,540	PW 1933.
Beach City Lk .....	OH Tuscarawas .....	Sugar Cr .....	FP	7.6	928.0	922.5	1,540	1,250	
Beech Fk Lk .....	WV Wayne .....	Beech Fk Cr .....	F	1,213.0	375.0	359.0	93,430	57,920	PL 79-525.
Belleville L&D .....	WV Wood .....	Ohio R .....	F	259.0	359.0	354.0	57,920	45,210	
Berlin Lk .....	OH Meigs .....	.....	F	610.0	354.0	233.0	45,210	0	
Bluestone Lk .....	WV Summers .....	New R .....	F	558.8	590.0	552.0	20,150	10,000	PL 75-261.
Bolivar Dam .....	OH Stark, Tuscarawas ..	Sandy Cr .....	FMR	190.3	552.0	525.0	10,000	4,340	
Brookville Lk .....	IN Franklin .....	E Fork of Whitewater R .....	F	69.9	976.5	948.0	6,150	420	PW 1933.
Buckhorn Lk .....	KY Leslie .....	Middle Fk of Kentucky R .....	FCR	0.0	0.0	0.0	0	420	
Burnsville Lk .....	WV Braxton .....	L Kanawha R .....	F	28.3	614.5	592.0	1,847	725	PL 87-874.
CJ Brown Dam & Res .....	OH Clark .....	Buck Cr .....	F	5.0	592.0	583.5	725	460	
CM Harden Lk .....	IN Parke .....	Raccoon Cr .....	F	0.0	582.0	560.0	0	0	RHA 1909.
Caesar Cr Lk .....	OH Warren .....	Caesar Cr .....	F	38.3	1,032.0	1,024.7	5,500	3,590	PL 75-761.
Cagles Mill Lk .....	IN Putman .....	Mill Cr .....	FMCAR	56.6	1,024.7	1,016.5	3,590	2,200	
Cannelton L&D .....	KY Hancock .....	Ohio R .....	F	592.6	1,520.0	1,410.0	9,180	2,040	PL 74-738.
Carr Fk Lk .....	IN Perry .....	Carr Cr .....	FCR	7.5	1,410.0	1,406.0	2,040	1,800	PL 75-761.
	KY Knott .....	.....	F	149.6	962.0	895.0	6,500	0	PW 1933.
			F	128.4	748.0	713.0	5,260	2,430	PL 75-761.
			F	135.8	840.0	782.0	3,610	1,230	PL 75-761.
			FR	21.8	782.0	757.0	1,230	550	
			F	51.5	825.0	789.0	1,902	965	PL 75-761.
			FCAR	10.2	789.0	776.0	965	553	
			F	26.8	1,023.0	1,012.0	2,720	2,120	PL 87-874.
			F	83.5	690.0	661.0	3,910	2,060	PL 75-761.
			FAR	33.1	661.0	640.0	2,060	1,100	
			F	140.2	883.0	849.0	6,110	2,830	PL 75-761.
			FMAR	88.7	849.0	800.0	2,830	700	
			F	201.0	704.0	636.0	4,840	1,400	PL 75-761.
			N	0.0	383.0	358.0	0	0	RHA 1909.
			F	25.1	1,055.0	1027.0	1,120	710	PL 87-874.
			FAR	10.8	1,027.0	1009.0	710	530	

## APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name <sup>1</sup>	State/county	Stream <sup>1</sup>	Project pur- pose <sup>2</sup>	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis <sup>3</sup>
					Upper	Lower	Upper	Lower	
Cave Run Lk .....	KY Rowan .....	Licking R .....	F FAR	391.5 75.3	765.0 730.0	730.0 720.0	14,870 8,270	8,270 6,790	PL 74–738
Center Hill Lk .....	TN Dekalb .....	Caney FK .....	F P	762.0 492.0	685.0 648.0	648.0 618.0	23,060 18,220	18,220 14,590	PL 75–761.
Charles Mill Lk .....	OH Ashland .....	Black Fk .....	F FCR	80.6 4.5	1,020.0 997.0	997.0 993.0	6,050 1,350	1,350 827	PW 1933.
Cheatham L&D .....	TN Cheatham .....	Cumberland R .....	P N	19.8 84.2	385.0 382.0	382.0 345.0	7,450 5,630	5,630 0	RHA 1946, PL 396.
Clendening Lk .....	OH Harrison .....	Brush Fk .....	F FCR	27.5 8.0	910.5 898.0	898.0 893.0	2,620 1,800	1,800 1,430	PW 1933.
Conemaugh River Lk .....	PA Indiana, Westmore- land.	Conemaugh R .....	F	270.0	975.0	880.0	6,820	300	PL 74–738, PL 75–761.
Cordell Hull Dam & Res .....	TN Smith .....	Cumberland R .....	PR NR	17.8 0.0	504.5 499.0	499.0 424.0	12,200 9,820	9,820 0	RHA 1946.
Crooked Cr Lk .....	PA Armstrong .....	Crooked Cr .....	F	89.4	920.0	840.0	1,940	350	PL 74–738, PL 75–761.
Dale Hollow Lk .....	TN Clay .....	Obey R .....	F P	353.0 496.0	663.0 651.0	651.0 631.0	30,990 27,700	27,700 21,880	PL 75–761.
Dashields L&D .....	PA Allegheny .....	Ohio R .....	N F	0.0 81.5	692.0 844.0	682.0 810.0	0 4,046	0 1,277	RHA 1909. PL 75–761.
Deer Cr Lk .....	OH Pickaway .....	Deer Cr .....	FCR	14.6	810.0	796.0	1,277	727	
Delaware Lk .....	OH Delaware .....	Oilentangy R .....	F FCAR	118.0 5.6	947.0 915.0	915.0 910.0	8,550 1,270	1,270	PL 75–761
Dewey Lk .....	KY Floyd .....	Johns Cr .....	F FCR	76.1 4.9	686.0 650.0	650.0 645.0	3,340 1,100	1,100 880	PL 75–761
Dillon Lk .....	OH Muskingum .....	Licking R .....	F FCR	256.5 4.4	790.0 737.0	737.0 734.0	10,280 1,560	1,560	PL 75–761.
Dover Dam .....	OH Tuscarawas .....	Tuscarawas R .....	F	203.0	916.0	858.0	10,100	0	PW 1933.
E Br Clarion River Lake .....	PA Elk .....	E Br Clarion R .....	F FCAR	19.0 19.8	1,685.0 1,670.0	1,670.0 1,651.0	1,370 1,160	1,160 920	PL 78–526.
E Fk Res Wm H Harsha Lk .....	OH Clermont .....	E Fk Little Miami R .....	F FMCAR	202.2 73.6	795.0 733.0	733.0 683.0	4,600 2,160	2,160	PL 75–761.
East Lynn Lk .....	WV Wayne .....	E Fk Twelvepole .....	F	65.3	701.0	662.0	2,351	1,005	PL 75–761.
Emsworth L&D .....	PA Allegheny .....	Ohio R .....	FCR	5.5	662.0	656.0	1,005	823	
Fishtrap Lk .....	KY Pike .....	Levisa Fk .....	F FCAR	126.7 27.2	825.0 757.0	757.0 725.0	2,681 1,131	1,131 569	PL 75–761.
Gallipolis L&D .....	WV Mason .....	Ohio R .....	N F	0.0 0.0	538.0	515.0	0	0	RHA 1935.
Grayson Lk .....	KY Carter .....	L Sandy R .....	F FCAR	89.6 10.7	681.0 645.0	645.0 637.0	3,633 1,509	1,509 1,159	PL 86–645.
Green R L&D 1 .....	KY Henderson .....	Green R .....	N	0.0	349.1	337.3	0	0	RHA 1888.
Green R L&D 2 .....	KY McLean .....	Green R .....	N	0.0	363.4	349.1	0	0	RHA 1888.
Green River Lk .....	KY Taylor .....	Green R .....	F FAR	479.1 81.5	713.0 675.0	675.0 664.0	19,100 8,210	8,210 6,650	PL 75–761.

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Greenup L&D 3 .....	KY Greenup .....	Ohio R .....	N	0.0	515.0	485.0	0	0	RHA 1909.
Hannibal L&D .....	OH Scioto .....	Ohio R .....	N	0.0	623.0	602.0	0	0	RHA 1909.
Hildebrand L&D .....	WV Monongalia .....	Monongahela .....	N	0.0	835.0	814.0	0	0	RHA 1950.
Huntington Lk .....	IN Hunt .....	Wabash R .....	F	140.6	798.0	749.0	7,900	900	PL 85-500.
J Percy Priest Dam & Res .....	TN Davidson .....	Stones R .....	F	252.0	504.5	490.5	22,720	14,400	PL 75-761.
JW Flanagan Dam & Res .....	VA Dickenson .....	Pound R .....	F	15.0	490.5	489.5	14,400	14,000	
Kentucky R L&D 1 .....	KY Carroll .....	Kentucky R .....	N	0.0	430.0	421.8	0	0	RHA 1879.
Kentucky R L&D 2 .....	KY Henry Owen .....	Kentucky R .....	N	0.0	444.0	430.0	0	0	RHA 1879.
Kentucky R L&D 3 .....	KY Henry Owen .....	Kentucky R .....	N	0.0	457.1	444.0	0	0	RHA 1879.
Kentucky R L&D 4 .....	KY Franklin .....	Kentucky R .....	N	0.0	470.4	457.1	0	0	RHA 1879.
Laurel River Lk .....	KY Laurel, Whitley .....	Laurel R .....	P	185.0	1,018.5	982.0	6,060	4,200	PL 86-645.
Leesville Lake .....	OH Carroll .....	McGuire Cr. .....	R	250.6	982.0	760.0	4,200	0	
London L&D .....	WV Kanawha .....	Kanawha R .....	F	17.9	977.5	963.0	1,470	1,000	PW 1933.
Loyalhanna Lk .....	PA Westmoreland .....	Loyalhanna Cr .....	N	5.5	963.0	957.0	1,000	829	
M J Kirwan Dam & Res .....	OH Portage .....	W. Br Mahoning R .....	FCR	0.0	614.0	590.0	0	0	RHA 1930.
Mahoning Cr Lk .....	PA Armstrong .....	Mahoning Cr .....	F	93.3	975.0	910.0	3,280	210	PL 74-738.
Markland L&D .....	IN Switzerland .....	Ohio R .....	FC	0.0	0.0	0.0	0	0	PL 75-761.
Marmet L&D .....	WV Kanawha R .....	Kanawha .....	F	22.0	993.0	985.5	3,240	2,650	PL-74-738.
Martins Fk Lk .....	KY Harlan .....	Martins Fk of Clover R ..	FCAR	52.9	985.5	951.0	2,650	570	PL 75-761.
Maxwell L&D .....	PA Fayette Washington .....	Monongahela R .....	FRC	64.7	1,162.0	1,098.0	2,370	280	PL 74-738.
McAlpine L&D .....	KY Jefferson .....	Ohio R .....	N	5.1	1,098.0	1,075.0	280	170	PL 75-761.
Meldahl L&D .....	KY Bracken .....	Ohio R .....	N	0.0	455.0	420.0	0	0	RHA 1909.
Mississinewa Lk .....	IN Miami .....	Mississinewa R .....	F	0.0	763.0	743.5	0	0	RHA 1909.
Mohawk Dam .....	OH Coshocton .....	Walhonding R .....	FR	14.3	1,341.0	1,310.0	578	340	PL 89-298.
Mohicanville Dam .....	OH Ashland .....	Lk Fork .....	F	3.1	1,310.0	1,300.0	340	274	
Monongahela R L&D 2 .....	PA Allegheny .....	Monongahela R .....	R	3.7	1,300.0	1,265.0	274	0	
Monongahela R L&D 3 .....	PA Allegheny .....	Monongahela R .....	FAR	0.0	718.7	710.0	0	0	RHA 1902.
Monongahela R L&D 4 .....	PA Washington Westmoreland .....	Monongahela R .....	R	0.0	726.9	718.7	0	0	RHA 1905.
Monongahela R L&D 7 .....	PA Greene, Fayette .....	Monongahela R .....	N	0.0	778.0	763.0	0	0	RHA 1922.
Monongahela R L&D 8 .....	PA Greene, Fayette .....	Monongahela R .....	N	0.0	797.0	778.0	0	0	RHA 1922, 1950, 1973.
Monroe Lk .....	IN Monroe .....	Salt Cr .....	F	258.8	556.0	538.0	18,450	10,750	FCA 1958.

## APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name <sup>1</sup>	State/county	Stream <sup>1</sup>	Project pur- pose <sup>2</sup>	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis <sup>3</sup>
					Upper	Lower	Upper	Lower	
Montgomery Island L&D .....	PA Beaver .....	Ohio R .....	FMA	159.9	538.0	515.0	10,750	3,280	.
Morgantown L&D .....	WV Monongalia Monongahela R. N .....	N .....	N	0.0	682.0	664.5	0	0	RHA 1909.
Mosquito Cr Lk .....	OH Trumbull .....	Mosquito Cr .....	F	21.7	904.0	901.4	8,900	7,850	PL 75-761.
N Br Kokosing River Lk .....	OH Knox .....	North Br of Kokosing R	FMCAR	80.4	901.4	899.9	7,850	7,220	
N Fk Pound Lk .....	VA Wise .....	N Fk Pound R .....	F	13.9	1,146.0	1,121.0	1,140	154	PL 87-874.
New Cumberland L&D .....	WV Hancock .....	Ohio R .....	FMCR	8.0	1,644.0	1,611.0	349	154	PL 86-645.
New Cumberland L&D .....	OH Jefferson .....	N .....	N	1.3	1,611.0	1,601.0	154	106	.
Newburgh L&D .....	KY Henderson .....	Ohio R .....	N	0.0	664.5	644.0	0	0	RHA 1909.
Nolin Lk .....	KY Edmonson .....	Nolin R .....	F	439.2	560.0	515.0	14,530	5,790	PL 75-761.
Ohio R L&D 52 .....	KY McCracken .....	Ohio R .....	FR	106.4	515.0	490.0	5,790	2,890	
Ohio R L&D 53 .....	IL Massac .....	N .....	N	0.0	302.0	290.0	0	0	RHA 1909, 1910, 1918.
Old Hickory L&D .....	KY Ballard .....	Ohio R .....	N	0.0	290.0	276.6	0	0	RHA 1909, 1910, 1918.
Old Hickory L&D .....	IL Pulaski .....	N .....	P	63.0	445.0	442.0	22,500	19,550	RHA 1946.
Opekiska L&D .....	WV Monongahela .....	Monongahela R .....	N	357.0	442.0	375.0	19,550	0	
Paint Cr Lk .....	OH Ross, Highland .....	Paint Cr .....	N	0.0	857.0	835.0	0	0	RHA 1950.
Paintsville Lk .....	KY Johnson .....	Paint Cr .....	F	124.7	845.0	798.0	4,761	1,190	PL 75-761.
Patoka Lk .....	IN DuBois .....	Patoka R .....	FMCAR	11.4	798.0	787.5	1,190	770	
Patoka Lk .....	IN DuBois .....	Patoka R .....	F	32.8	731.0	709.0	1,867	1,139	PL 89-298.
Piedmont Lk .....	OH Harrison .....	Stillwater Cr .....	FCAR	36.3	709.0	650.0	1,139	261	
Pike Island L&D .....	WV Ohio .....	Ohio R .....	FMCAR	121.1	548.0	536.0	11,300	8,880	PL 89-298.
Pleasant Hill Lk .....	OH Belmont .....	N .....	F	167.3	536.0	506.0	8,880	2,010	
R D Bailey Lk .....	WV Mingo, Wyoming .....	Guyandot R .....	F	32.2	924.6	913.0	3,170	2,310	PW 1933.
Racine L&D .....	WV Mason .....	Ohio R .....	FCR	8.6	913.0	909.0	2,310	1,987	
Rough River Lk .....	OH Meigs .....	N .....	N	0.0	644.0	623.0	0	0	RHA 1909.
Rough River Lk .....	Grayson, Breckinridge .....	Rough R .....	F	74.2	1,065.0	1,020.0	2,600	850	PW 1933.
Salamonie Lk .....	Ridge .....	F	FCR	5.5	1,020.0	1,012.5	850	627	
Senecaville Lk .....	IN Wabash .....	Salamonie R .....	F	169.5	1,155.0	1,035.0	2,850	630	PL 87-874.
Senecaville Lk .....	OH Guernsey .....	Seneca Fk .....	FCAR	12.2	1,035.0	1,012.0	630	440	
Senecaville Lk .....	OH Guernsey .....	F	N	0.0	560.0	538.0	0	0	RHA 1909.
Senecaville Lk .....	OH Guernsey .....	Seneca Fk .....	FCR	47.6	755.0	730.0	2,860	976	
Senecaville Lk .....	OH Guernsey .....	F	FR	45.1	842.5	832.2	5,170	3,550	PW 1933.
Senecaville Lk .....	OH Guernsey .....	FCR	12.8	832.2	828.2	3,550	2,912		

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Shenango River Lk .....	PA Mercer .....	Shenango R .....	F FCAR N	151.0 29.9 0.0	919.0 896.0 324.0	896.0 885.0 302.0	11,090 3,560 0	3,560 1,910 0	PL 75-761. RHA 1909.
Smithland L&D .....	KY Livingston .....	Ohio R .....	FRCA FCAR	161.8	1,652.0	1,1652.0	4,913	2,790 514	PL 75-761.
Summersville Lk .....	WV Nicholas .....	Gauley R .....	F FRCA FCAR	60.0	925.0	850.0	1,520	270	PL 75-761.
Sutton Lk .....	WV Braxton .....	Elk R .....	F FCR	26.5	909.0	899.3	3,100	2,350	PW 1933.
Tappan Lk .....	OH Harrison .....	L Stillwater Cr .....	FRM	11.4	899.3	894.0	2,350	1,960	
Tionesta Lk .....	PA Forest .....	Tionesta Cr .....	F F	125.6 17.6	1,170.0 740.0	1,085.0 721.0	2,770 1,192	480 664	PL 74-738. PL 75-761. FCA 1944.
Tom Jenkins Dam, Burr Oak, Lk .....	OH Athens .....	E Br Sandy Cr .....	FRM	5.8	721.0	710.0	664	394	PL 78-534.
Tygart Lake .....	WV Taylor .....	Tygart R .....	F FMACR	178.1 99.9	1,167.0 1,094.0	1,094.0 1,010.0	3,430 1,740	1,740	PWA 1934.
Union City Res .....	PA Erie .....	French Cr .....	F N	47.6 0.0	1,278.0 342.0	1,210.0 324.0	2,290 0	0 0	PL 87-874. RHA 1909.
Uniontown L&D .....	KY Union .....	Ohio R .....							
W FK of Mill Cr Winton Woods Lk .....	OH Hamilton .....	W Fk Mill Cr .....	F N	9.8 0.0	702.0 602.0	675.0 582.0	557 0	183 0	PL 79-526. RHA 1909.
Willow Island L&D .....	WV Pleasants .....	Ohio R .....							
Wills Cr Lk .....	OH Washington .....	OH Coshocton Wills Cr, Muskingum.	F	190.0	779.0	742.0	11,450	900	PW 1933.
Winfield L&D .....	WV Putnam .....	Kanawha R .....	CR N	0.0 0.0	0.0 566.0	0.0 538.0	0 0	0 0	RHA 1935.
Wolf Cr Dam, Lk Cumberland .....	KY Russell .....	Cumberland R .....	P F	2,142.0 2,094.0	723.0 760.0	673.0 723.0	50,250 63,530	35,820 50,250	PL 75-761.
Woodcock Cr Lk .....	PA Crawford .....	Woodcock Cr .....	F FCAR F	15.0 5.0	1,209.0 1,181.0	1,181.0 1,162.5	775 325	325 100	FCA 1962.
Youghiogheny R Lk .....	PA Fayette .....	Youghiogheny R .....	FCAR FCAR	99.5 149.3	1,470.0 1,439.0	1,439.0 1,419.0	3,570 2,840	2,840 2,300	FCA 1938.

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Aberdeen L&D and Res .....	MS Monroe .....	Tombigbee R .....	N	3.9	190.5	189.5	4,359	3,883	PL 79-525.
Aliceville Lock Dam & Res .....	AL Pickens .....	Tombigbee R .....	N	7.6	136.5	135.5	8,655	7,945	PL 79-525.
Allatoona Dam & Res .....	GA Bartow .....	Etowah R .....	F PMAR	302.6 284.6	860.0 840.0	840.0 800.0	19,201 11,862	11,862	PL 77-228.
B Everett Jordan Dam & Lk .....	NC Chatham .....	Haw R .....	F FMCAR	538.4 140.4	240.0 216.0	216.0 202.0	31,811 13,942	13,942	PL 88-253.
Bay Springs Lock Dam & Res .....	MS Tishomingo .....	Tombigbee R .....	N	37.0	414.0	408.0	6,700	5,740	PL 79-525.
Buford Dam Lk, Sidney Lanier .....	GA Forsyth, Gwinnett .....	Chattahoochee R .....	F PNMR	598.8 1,087.6	1,085.0 1,071.0	1,071.0 1,035.0	47,182 38,542	38,542	PL 79-14.
Carters Dam & Res .....	GA Murray .....	Coosawattee R .....	F PRA	89.2 41.4	1,099.0 1,074.0	1,074.0 1,022.0	3,880 3,275	3,275	PL 79-14.
Claiborne Lock Dam & Res .....	AL Monroe .....	Alabama R .....	N	16.6	35.0	32.0	5,930	5,210	PL 79-14.
Clarks Hill Dam & Lk .....	GA Columbia .....	Savannah R .....	F FP	390.0 1,045.0	335.0 330.0	330.0 312.0	78,500 71,100	71,100	PL 78-534.
Coffeyville Lock Dam & Res .....	AL Clark, Choctaw .....	Tombigbee R .....	N	19.9	32.5	30.0	8,500	7,500	PL 60-317.
Columbus Lock Dam & Res .....	MS Lowndes .....	Tombigbee R .....	N	8.5	163.5	162.5	9,400	8,500	PL 79-525.
Demopolis Lock Dam & Res .....	AL Sumter, Marengo ....	Tombigbee R .....	N	0.0	73.0	73.0	10,000	10,000	PL 60-317.

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Project name <sup>1</sup>	State/county	Stream <sup>1</sup>	Project pur- pose <sup>2</sup>	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis <sup>3</sup>
					Upper	Lower	Upper	Lower	
Falls Dam & Lk .....	NC Wake .....	Neuse R .....	F FMCAR N	220.9 89.7 8.2	264.0 250.1 102.0	250.1 236.5 96.0	20,810 11,310 1,540	11,310 2,600 1,190	PL 89-298.
G W Andrews L&D and Res .....	AL Houston .....	Chattahoochee R .....	N	5.8	109.5	108.5	6,920	5,900	PL 79-14.
Gainesville L&D and Res .....	AL Sumter, Greene .....	Tombigbee R .....	N	5.8	109.5	108.5	6,920	5,900	PL 79-525.
Hartwell Dam & Lk .....	GA Hart .....	Savannah R .....	F FP SC Anderson .....	293.0 1,416.0	665.0 660.0	660.0 625.0	61,400 55,950	55,950 27,650	PL 81-516.
Holt Lock Dam & Res .....	AL Tuscaloosa .....	Black-Warrior R .....	NP	3.3	187.0	186.0	3,296	3,252	PL 60-317.
Inglis Dam Lk Rousseau .....	FL Levy, Marion, Citrus .....	Cross FL Barge Canal .....	N	13.0	27.5	24.0	4,030	2,040	PL 77-675.
Jim Woodruf L&D .....	FL Gadsden, Jackson .....	Apalachicola R .....	NP	20.0	77.5	76.5	38,850	36,000	PL 79-14.
John H Kerr Dam & Res .....	VA Mecklenburg .....	Roanoke R .....	F FP NP	1,281.4 1,027.0 27.1	320.0 300.0 255.0	300.0 268.0 252.0	83,200 48,900 9,245	48,900 19,700 8,730	PL 78-534.
John Hollis Bankhead L&D and Res ..	AL Tuscaloosa .....	Black-Warrior R .....	FNIIMC	2,859.0	17.5	10.5	454,900	326,000	PL 60-168.
Lk Okeechobee .....	FL Okeechobee, Glades, Hendry, Palm Beach, Martin.	Central and Southern FL							PL 71-520, PL 75-392, PL 79-14, PL 80-858, PL 83-780, PL 90.
Lock A .....	MS Monroe .....	Tombigbee R .....	N	0.9	220.5	219.5	980	850	PL 79-525.
Lock B .....	MS Monroe .....	Tombigbee R .....	N	2.7	245.5	244.5	2,841	2,615	PL 79-525.
Lock C .....	MS Itawamba .....	Tombigbee R .....	N	1.6	270.5	269.5	1,699	1,586	PL 79-525.
Lock D .....	MS Itawamba .....	Tombigbee R .....	N	2.0	300.5	299.5	2,021	1,959	PL 79-525.
Lock E .....	MS Itawamba, Prentiss .....	Tombigbee R .....	N	0.9	330.5	329.5	889	821	PL 79-525.
Millers Ferry L&D .....	AL Wilcox .....	Alabama R .....	NP	16.7	80.0	79.0	17,201	16,160	PL 79-14.
Okatibbee Dam & Res .....	MS Lauderdale .....	Okatibbee Cr .....	F RMA	46.5 34.3	352.0 343.0	343.0 328.0	6,580 3,800	3,800 1,275	PL 87-874.
Philpott Dam & Lk .....	VA Henry .....	Smith R .....	F RMA	34.2 34.2	985.0 985.0	974.0 974.0	3,370	2,880	PL 78-534.
R B Russell Dam and Lk .....	GA Elbert .....	Savannah R .....	F FP	111.2 140.0	480.0 475.0	920.0 470.0	2,880 26,653	2,880 PL 89-789.	
Robert F Henry Lock Dam & Res .....	SC Abbeville .....	Alabama R .....	FP	126.8	475.0	470.0	26,653	24,117	
Rodman Dam & Lk Ocklawaha .....	AL Autauga, Lowndes .....	Cross FL Barge Canal .....	NP	44.6	125.0	124.0	13,300	10,470	PL 79-14.
S-10 & Water Cons Area 1 .....	FL Palm Beach .....	Central and Southern FL	F FIMC	48.0 181.9 273.2	23.2 18.3 17.0	20.0 17.0 14.0	17,350 141,250 141,250	12,950 26,000 26,000	PL 77-675. PL 80-858.
S-11 & Water Cons Area 2A .....	FL Palm Beach Broward .....	Central and Southern FL	F FIMC	236.3 165.0	16.6 14.5	14.5 13.0	110,500 110,500	110,500 107,500	PL 80-858. PL 83-780.
S-12 & Water Cons Area 3A .....	FL Broward & Dade .....	Central and Southern FL	F FIMC	1,661.0 465.0	14.5 10.5	10.5 9.5	487,200 385,000	385,000 316,000	PL 80-858. PL 83-780.
Selden Lock and Res .....	AL Hale, Greene .....	Black-Warrior R .....	N	9.1	95.5	94.0	8,200	6,900	PL 60-317.
W Kerr Scott Dam & Res .....	NC Wilkes .....	Yadkin R .....	F FM	112.0 33.0	1,075.0 1,030.0	1,030.0 1,000.0	4,000 1,475	1,475 675	PL 79-526.
Walter F George L&D .....	GA Clay .....	Chattahoochee R .....	NP	244.0	190.0	184.0	45,181	36,375	PL 81-516.
West Point Dam & Res .....	GA Troup .....	Chattahoochee R .....	NPMAR	306.1	635.0	620.0	25,864	15,512	PL 87-874.
William Bacon Oliver L&D and Res .....	AL Tuscaloosa .....	Black Warrior R .....	N	0	122.9	122.9	790	790	PL 60-317.

South Pacific Division										
Alamo Dam & Lk .....	AZ Mohave, Yuma .....	Bill Williams R .....	F	1,046.2	1,235.0	1,174.0	13,307	7,045	PL 78-534.	
Bear Dam .....	CA Mariposa .....	Bear Cr .....	F	7.7	413.5	344.0	265	0	PL 78-534.	
Black Butte Lk .....	CA Tehama .....	Stony Cr .....	FI	137.1	473.5	414.6	4,453	577	PL 78-534.	
Brea Dam & Res .....	CA Orange .....	Brea Cr .....	F	4.0	279.0	208.0	163	0	FCA 1936.	
Buchanan Dam H.V. Eastman Lk .....	CA Madera .....	Chowchilla R .....	F	45.0	587.0	559.0	1,785	1,482	PL 78-874.	
Burns Dam .....	CA Merced .....	Burns Cr .....	F	6.8	300.0	266.0	662	0	PL 78-534.	
Carbon Canyon Dam & Res .....	CA Orange .....	Carbon Cr .....	F	6.6	475.0	403.0	225	0	PL 74-738.	
Coyote Valley Dam Lk Mendocino .....	CA Mendocino .....	East Fork, Russian R .....	F	50.1	764.8	737.5	1,922	1,740	PL 75-761.	
Dry Cr (Warm Springs) Lk & Channel .....	CA Sonoma .....	Dry Cr .....	IM	72.3	737.5	637.0	1,740	20		
Farmington Dam .....	CA San Joaquin, Stanislaus.	Littlejohn Cr .....	F	136.0	495.0	451.1	3,600	2,600	PL 87-874.	
Fullerton Dam & Res .....	CA Orange .....	Fullerton Cr .....	F	225.0	451.1	291.0	2,600	500		
Hansen Dam Res .....	CA Los Angeles .....	Fresno R .....	F	52.0	156.5	120.0	4,107	0	PL 78-534.	
Hidden Dam Hensley Lk .....	CA Madera .....	F	85.0	540.0	448.0	1,567	811	PL 87-874.		
Isabella Lk .....	CA Kern .....	Kern R .....	FI	65.0	540.0	485.8	1,567	280		
Lopez Dam Res .....	CA Los Angeles .....	Pocono Wash .....	F	19.6	5,838.0	5,780.0	762	61	PL 87-874.	
Mariposa Dam .....	CA Mariposa .....	Mariposa Cr .....	F	25.4	1,060.0	990.0	781	0	FCA 1936.	
Martis Cr Lk .....	CA Nevada .....	Martis Cr .....	F	89.7	3,134.0	2,988.0	1,978	0	PL 86-645.	
Mathews Canyon Dam & Res .....	NV Lincoln .....	Mathews Canyon .....	F	165.0	713.0	666.2	4,333	2,818	PL 78-534.	
Mojave River Dam & Res .....	CA San Bernardino .....	Mojave R .....	F	302.2	713.0	586.0	4,333	702		
New Hogan Lk .....	CA Calaveras .....	Calaveras R .....	F	2,491.5	661.0	524.0	53,200	0	PL 81-516.	
Owens Dam .....	CA Mariposa .....	Owens Cr .....	F	7.8	5,675.0	5,604.0	254	0	PL 81-516.	
Painted Roc Dam & Res .....	AZ Maricopa .....	Gila R .....	F	1,000.0	951.5	565.5	5,956	0	PL 81-516.	
Pine Canyon Dam & Res .....	NV Lincoln .....	Pine Canyon .....	F	196.2	543.0	460.0	6,630	0	FCA 1936.	
Pine Flat Lk Kings R .....	CA Fresno .....	Kings R .....	F	7.7	2,238.0	2,125.0	145	0	FCA 1936.	
Prado Dam & Res .....	CA Riverside .....	Santa Ana R .....	F	32.1	496.0	421.0	1,084	0	FCA 1936, 1941.	
San Antonio Dam & Res .....	CA Los Angeles .....	San Antonio Cr .....	F	17.4	710.0	668.0	1,335	0	FCA 1936.	
Santa Fe Dam & Res .....	CA Los Angeles .....	San Gabriel R .....	F	75.0	652.5	588.9	2,477	409	PL 78-534.	
Sepulveda Dam & Res .....	CA Los Angeles .....	Tule R .....	FI	136.1	694.0	570.0	1,913	276	PL 78-534.	
Success Lk .....	CA Tulare .....	Kaweah R .....	F	35.6	2,166.0	2,056.0	828	0	PL 79-526.	
Terminus Dam Lk Kaweah .....	AZ Pinal .....	Queen Cr .....	F	34.9	228.5	184.0	2,411	0	FCA 1936.	
Whitlow Ranch Dam & Res .....	CA Los Angeles .....	San Gabriel Rio Hondo R .....	MR	93.6	537.5	478.6	3,280	26		
Southwestern Division										
Abiquiu Dam .....	NM Rio Arriba .....	Rio Chama .....	F	572.2	6,283.5	6,220.0	7,469	4,120	PL 80-858.	
Addicks Res .....	TX Harris .....	Buffalo Bayou .....	FM	191.3	6,220.0	6,060.0	4,120	0		
Aquilla Lk .....	TX Hill .....	Aquilla Cr .....	F	200.8	112.0	71.1	16,423	0	HD250-83-2.	
			MR	161.4	564.5	537.5	8,980	3,280	PL 90-483.	
				93.6	537.5	478.6	3,280	26		

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## APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name <sup>1</sup>	State/county	Stream <sup>1</sup>	Project pur- pose <sup>2</sup>	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis <sup>3</sup>
					Upper	Lower	Upper	Lower	
Arcadia Lk .....	OK Oklahoma .....	Deep Fork R .....	F FMCR	64.4 27.4	1,029.5 1,006.0	1,006.0 970.0	3,820 1,820	1,820 20	PL 91–611.
B A Steinhagen Lk .....	TX Taylor, Jasper .....	Neches R .....	F	24.5	83.0	81.0	13,700	10,950	SD98–76–1.
Bardwell Lk .....	TX Ellis .....	Waxahachie Cr .....	F M	79.6 42.8	439.0 421.0	421.0 372.6	6,040 3,570	3,570 0	PL 86–399.
Barker Res .....	TX Harris Ft Bend .....	Buffalo Bayou .....	F	209.0	106.0	73.2	16,734	0	HD250–83–2, RHA 1938.
Beaver Lk .....	AR Carroll, Benton, Washington.	White R .....	F	299.6	1,130.0	1,120.0	31,700	28,220	PL 83–780.
Belton Lk .....	TX Bell .....	Leon R .....	FPM F MI	925.1 640.0 372.7	1,120.0 631.0 594.0	1,077.0 23,600 470.0	28,220 12,400 12,400	15,540 12,400 42	PL 85–500. PL 79–526. HD88–81–1.
Benbrook Lk .....	TX Tarrant, Parker .....	Clear Fk Trinity R .....	F NM	170.4 72.5	724.0 694.0	694.0 656.0	7,630 3,770	3,770 730	HD103–771.
Big Hill LK .....	KN Labette .....	Big Hill Cr .....	F FMR	13.1 27.2	867.5 858.0	858.0 814.0	1,520 1,240	1,240 70	PL 87–874. HD572–87–2.
Birch Lk .....	OK Osage .....	Birch Cr .....	F FMCAR	39.0 15.8	774.0 750.5	750.5 730.0	2,340 1,140	1,140 384	PL 87–874. HD563–87–2.
Blue Mountain Lk .....	AR Yell, Logan .....	Petit Jean R .....	F	233.3	419.0	384.0	11,000	2,910	PA 75–761.
Broken Bow Lk .....	OK McCurtain .....	Mountain Fk R .....	F FRPMAC	450.2 469.8	627.5 599.5	599.5 559.5	18,000 14,200	14,200 9,200	PL 85–500.
Bull Shoals Lk .....	AR Baxter, Marion, Boone.	White R .....	F	2,360.0	695.0	654.0	71,240	45,440	PL 77–228.
Canton Lk .....	MO Ozark, Taney .....	PF OK Blain .....	N Canadian R .....	1,003.0 265.8 F FMI	654.0 1,638.0 1,615.4 97.2	628.5 1,615.4 1,596.5 1,596.5	45,440 15,710 7,910 7,910	33,800 PL 75–761.	
Canyon Lk .....	TX Comal .....	Guadalupe R .....	F M	346.4 366.4	934.0 909.0	909.0 75.0	12,890 8,240	8,240 0	PL 79–14.
Clearwater Lk .....	MO Reynolds, Wayne ..	Black R .....	F	391.8	567.0	494.0	10,400	1,630	PL 75–761.
Cochiti Lk .....	NM Sandoval, Sante Fe, Los Alamos.	Rio Grande .....	F	545.0	5,460.5	5,356.6 1,274.0	9,361 3,230	1,200 42	PL 86–645.
Conchas Lk .....	NM San Miguel .....	Candian R .....	FRC F	43.0 198.8	5,356.6 4,218.0	5,330.0 4,201.0	1,200 13,664	9,692	HD 308–74.
Copan Lk .....	OK Washington .....	L Caney R .....	FI	259.6	4,201.0	4,155.0	9,692	3,000	
Council Grove Lk .....	KS Chautauqua .....	.....	FMCA	184.3	732.0	710.0	13,380	4,850	PL 87–874.
DeQueen Lk .....	KS Morris .....	Neosho R .....	F FMAR	42.8 63.8	710.0 1,289.0	687.5 1,274.0	4,850 5,400	110 3,230	HD563–87–2. PL 81–516.
Dierks Lk .....	AR Sevier .....	Rolling Fork R .....	F FMCRQ	101.3 25.5	473.5 437.0	437.0 415.0	4,050 1,680	1,680 710	PL 85–500.
Eldorado Lk .....	AR Sevier, Howard .....	Saline R .....	F FMCR	67.1 15.1	557.5 526.0	526.0 512.0	2,970 1,360	1,360 810	PL 85–500.
Elk City Lk .....	KS Butler .....	Walnut R .....	F FMAR	79.2 154.0	1,347.5 1,339.0	1,339.0 1,296.0	10,740 8,000	8,000 420	PL 89–298. HD232–89–1.
	KS Montgomery .....	Elk R .....	F	239.5	825.0	796.0	13,150	4,450	HD440–76–1.

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Eufaula Lk .....	OK McIntosh, Pittsburg, Haskell.	Candian R .....	FMA F	44.8 1,510.9	796.0 597.0	764.0 585.0	4,450 147,960	64 105,480	PL 79-525.
Fall River Lk .....	KS Greenwood .....	Fall R .....	FNPM F FA	1,463.0 234.5 15.0	585.0 987.5 948.5	565.0 948.5 940.0	105,480 2,350	46,120 1,170	HD440-76-1.
Fort Gibson Lk .....	OK Wagoner .....	Neosho (Grand) R .....	F FP F	919.2 53.9 86.8	582.0 554.0 2,028.0	554.0 551.0 2,004.0	51,000 19,100 5,690	19,900 16,950 5,690	FEC 1941. RHA 1946. PL 74-738.
Fort Supply Lk .....	OK Woodward .....	Wolf Cr .....	FM F FMCQ	13.9 188.7 29.3	2,004.0 569.0 502.0	1,988.0 464.5 464.5	1,820 4,680 1,370	0 0 310	PL 86-645. PL 87-874. PL 85-500.
Galisteo Dam .....	NM Santa Fe .....	Galisteo Cr .....	F	79.4	5,608.0	5,496.0	2,060	0	HD 591-82-2.
Georgetown Lk .....	TX Williamson .....	N.F. San Gabriel R .....	F MC	87.6 29.2	834.0 791.0	791.0 699.0	3,220 1,310	1,310 0	PL 87-874.
Gillham Lk .....	AR Howard, Polk .....	Cossatot R .....	F	188.7	569.0	502.0	4,680	1,370	PL 85-500.
Granger Lk .....	TX Williamson .....	San Gabriel R .....	F M F	162.2 37.9 243.1	528.0 504.0 560.0	504.0 440.0 535.0	11,040 4,400 12,710	4,400 0 7,280	PL 87-874. HD103-77-1.
Grapevine Lk .....	TX Denton, Tarrant .....	Denton Cr .....	M F F	154.3 240.0 1,138.5	535.0 1,125.0	451.0 1,115.0	7,380 8,690	41 0	PL 74-738.
Great Salt Plains Lk .....	OK Alfalfa .....	Salt Fk .....	FC F	31.4 31.4	1,125.0	1,115.0	31,460	31,460	PL 75-761.
Greers Ferry Lk .....	AR Cleburne, Van Buren .....	Arkansas R .....	F FP	934.0 716.5	487.0 461.0	461.0 435.0	40,480 31,460	23,740	PL 83-780.
Heyburn Lk .....	OK Creek .....	Polecat Cr .....	F FM F	48.4 3.8 784.0	761.5	761.5 55.5	3,700 917	917 394	PL 79-526.
Hords Cr Lk .....	TX Coleman .....	Hords Cr .....	F F M	16.7 1,920.0 5.8	1,900.0	1,900.0 1,848.0	1,260 510	510 0	PL 77-228.
Hugo Lk .....	OK Choctaw .....	Kiamichi R .....	F FMCAR	809.1 127.2	437.5 404.5	404.5 390.0	34,490 13,250	13,250 4,500	PL 79-526.
Hulah Lk .....	OK Osage .....	Caney R .....	F F FMA	257.9 31.1	765.0 733.0	733.0 710.0	13,000 3,570	3,570 0	PL 74-738. PL 84-843.
Jemez Canyon Dam .....	NM Sandoval .....	Jemez R .....	F	73.0	5,232.0	5,196.1	2,877	1,370	PL 80-858
Joe Pool Lk .....	TX Dalla, Ellis, Tarrant .....	Mountain Cr .....	F M F	1,238.0 176.9 270.3	536.0 522.0 3,870.0	522.0 456.0 3,851.0	10,940 7,470 17,630	7,470 10 11,655	PL 89-298. PL 74-738.
John Martin Res .....	CO Bent .....	Arkansas R .....	FRC F F	350.9 559.0 1,068.0	3,851.0 1,039.0 1,039.0	0.0 1,020.0 1,020.0	11,655 9,300 9,300	0 108 108	PL 81-516.
John Redmond Dam & Res .....	KS Coffee .....	Neosho R .....	F FMAR	70.8 919.4	1,044.5	1,039.0 1,010.0	31,700 38,020	9,300 17,040	PL 81-516. PL 87-874.
Kaw Lk .....	OK Kay, Osage .....	Arkansas R .....	F FMARC	343.5 1,180.0	1,010.0 754.0	978.0 723.0	17,040 54,300	5,590 23,600	PL 81-516.
Keystone Lk .....	OK Tulsa .....	Arkansas R .....	FNPMC F	296.7 0.0	723.0 142.0	706.0 142.0	23,600 140	13,300 140	PL 81-516.
L&D 01, Norrell .....	AR Arkansas .....	Arkansas Post Canal ....	N	18.7	162.3	160.5	10,700	9,400	HD 758-79, RHA 1946.
L&D 02, Wilbur D. Mills Dam .....	AR Desha, Arkansas .....	Arkansas R .....	N	8.3	182.3	180.0	3,750	3,180	HD 758-79, RHA 1946.
L&D 03 .....	AR Jefferson, Lincoln .....	Arkansas R .....	N	12.9	196.3	194.0	5,820	5,200	HD 758-79, RHA 1946.
L&D 04 .....	AR Jefferson .....	Arkansas R .....	N	14.4	213.3	211.0	6,900	5,550	HD 758-79, RHA 1946.
L&D 05 .....	AR Jefferson .....	Arkansas R .....	N	9.6	231.3	229.0	4,830	4,130	HD 758-79.
L&D 06, David D. Terry .....	AR Pulaski .....	Arkansas R .....	N	24.7	249.7	247.0	10,350	8,100	RHA 1946.

## APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name <sup>1</sup>	State/county	Stream <sup>1</sup>	Project pur- pose <sup>2</sup>	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis <sup>3</sup>
					Upper	Lower	Upper	Lower	
L&D 08, Toad Suck Ferry .....	AR Faulkner, Perry .....	Arkansas R .....	N	8.7	265.3	263.0	4,130	3,600	RHA 1946.
L&D 09, Arthur V. Ormond L&D, W. Rockefeller Lk.	AR Conway .....	Arkansas R .....	N	15.8	287.0	284.0	5,660	4,910	HD 758-79.
L&D 10, Lk Dardanelle .....	AR Pope Yell .....	Arkansas R .....	NP	72.3	338.2	336.0	34,700	31,140	HD 758-79, RHA 1946.
L&D 11, Ozark-Jetta Taylor .....	AR Franklin .....	Arkansas .....	NPR	25.3	372.5	370.0	11,100	8,800	RHA 1946, HD 758-79.
L&D 13, James W. Trimble .....	AR Sebastian, Crawford .....	Arkansas R .....	N	18.1	392.0	389.0	6,820	5,200	RHA 1946.
L&D 14, W. D. Mayo .....	OK Sequoyah, Lefflore .....	Arkansas R .....	N	0.0	413.0	0.0	1,600	0	PL 79-525.
L&D 15, Robert S. Kerr Res .....	OK Lefflore, Sequoyah .....	Arkansas R .....	NP	84.7	460.0	458.0	43,800	40,760	PL 79-525.
L&D 16, Webbers Falls Res .....	OK Muskogee .....	Arkansas R .....	NP	32.4	490.0	487.0	10,900	9,300	PL 79-525.
L&D 17, Chouteau .....	OK Wagoner .....	Verdigris R .....	N	0.0	511.0	511.0	2,270	2,270	PL 79-525, HD 758-79-2.
L&D 18, Newt Graham .....	OK Wagoner .....	Verdigris R .....	N	0.0	532.0	532.0	1,490	1,490	PL 97-525.
Lake O' The Pines .....	TX Marion .....	Cypress Cr .....	F	579.5	249.5	228.5	38,200	18,700	PL 79-526.
Lavon Lk .....	TX Collin .....	East Fork, Trinity R .....	F	250.0	228.5	201.0	18,700	1,100	
Lewisville Lk Garza-Little Elm Dam .....	TX Denton .....	Elm Fork Trinity R .....	F	380.0	492.0	433.0	21,400	2,87	
Marion Lk .....	KS Marion .....	Cottonwood R .....	M	525.2	532.0	515.0	39,080	23,280	HD 403-77-1.
Millwood Lk .....	AR Little R Hempstead .....	Little R .....	F	436.0	515.0	433.0	23,280	12	
Navarro Mills Lk .....	TX Navarro Hill .....	Richland Cr .....	F	143.2	443.0	424.5	11,700	5,070	HD 498-83-2.
Nimrod Lk .....	AR Perry, Yell .....	Fourche La Fave R .....	M	53.2	424.5	375.3	5,070	0	
Norfork Lk .....	AR Baxter, Fulton .....	North Fork R .....	F	307.0	373.0	342.0	18,300	3,550	FCA 1938.
North Fork Lk .....	MO Ozark .....	FP .....	F	731.8	580.0	552.0	30,700	21,990	PL 75-761.
O. C. Fisher Lk .....	TX Williamson .....	N.F. San Gabriel R .....	FP	707.0	552.0	510.0	21,990	12,320	FCA 1941
Oologah Lk .....	TX Tom Green .....	N. Concho R .....	F	87.6	834.0	791.0	3,220	1,310	PL 87-874.
Optima Lk .....	OK Rogers .....	Verdigris R .....	MC	29.2	791.0	699.0	1,310	0	HD 591-82-2.
Pat Mayse Lk .....	TX Lamar .....	Sanders Cr .....	F	277.2	1,938.5	1,908.0	12,700	5,440	PL 77-228.
Pine Cr .....	OK McCurtain .....	Little R .....	M	80.4	1,908.0	1,836.0	5,440	3	
Proctor Lk .....	TX Comanche .....	Leon R .....	FMN	965.6	661.0	638.0	56,800	29,460	PL 75-761.
Sam Rayburn Res .....	TX Jasper, San August- tine, Angelina .....	Angelina R .....	FMRC	544.1	638.0	592.0	29,460	1,120	
			F	100.5	2,779.0	2,763.5	7,640	5,340	PL 74-738.
			FMCR	117.7	2,763.5	2,726.0	5,340	1,335	
			F	64.6	460.5	451.0	7,680	5,993	PL 87-874.
			FMAC	119.9	451.0	415.0	5,993	996	HD 88-71.
			F	388.1	480.0	443.5	17,230	4,980	PL 85-500.
			FMAC	77.6	443.5	414.0	4,980	700	HD 170-85-1.
			F	310.1	1,197.0	1,162.0	14,010	4,610	PL 83-780, HD 535-81-2.
			PMC	1,099.4	173.0	164.4	114,500	74,040	HD 981-76-1.

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Santa Rosa .....	NM Guadalupe .....	Pecos R .....	F	340.0	4,746.2	4,776.5	10,740	3,823	PL 83-780.
Sardis .....	OK Pushmatah .....	Jackfork Cr .....	FI	160.0	4,776.5	4,746.2	7,115	3,823	
			F	122.6	607.0	599.0	16,960	13,610	HD 602-79-2.
Somerville Lk .....	TX Washington, Lee, Burleson.	Yegua Cr .....	FMR	274.2	599.0	542.0	13,610	40	
			F	337.7	258.0	238.0	24,400	11,460	PL 83-780.
Stiatoak .....	OK Osage .....	Horniny Cr .....	M	143.9	238.0	200.0	11,460	0	
			F	178.0	729.0	714.0	13,690	10,190	HD 563-87.
Stillhouse H. Lk .....	TX Bell .....	Lampasas R .....	FMARC	311.6	714.0	657.0	10,190	1,430	
			F	390.6	666.0	622.0	11,830	6,430	PL 83-780.
Table Rock Lk .....	MO Taney, Stone, Barry AR Carroll, Boone .....	White R .....	M	204.9	622.0	498.0	6,430	0	
			F	760.0	931.0	915.0	52,250	43,070	PL 77-228.
Tenkille Ferry Lk .....	OK Cherokee, Sequoyah	Illinois R .....	FP	1,181.50	915.0	881.0	43,070	27,300	FCA 1938.
			F	576.7	667.0	632.0	20,800	12,900	RHA 1946.
Texoma Lk, Denison Dam .....	TX Marshall .....	Red R .....	FP	371.0	632.0	594.5	12,900	7,370	
	OK Bryan, Cook, Gray- son.		F	2,669.0	640.0	617.0	144,000	88,000	PL 75-761.
			FPM	1,612.0	617.0	590.0	88,000	41,000	
Toronto Lk .....	KS Woodson .....	Verdigris R .....	F	179.8	931.0	901.5	11,740	2,660	HD 440-76-1.
			FMA	10.7	901.5	896.7	2,660	1,720	
Trinidad Lk .....	CO Las Animas .....	Purgatorie R .....	F	58.0	6,260.0	6,230.0	2,107	1,453	PL 85-500.
			FI	20.0	6,230.0	0.0	1,453	0	
Two Rivers Dam .....	NM Chaves .....	Rio Hondo R .....	F	150.0	4,032.0	3,945.0	4,806	0	PL 83-780.
Waco Lk .....	TX McLennan .....	Bosque R .....	F	3.3	500.0	455.0	19,440	7,270	PL 83-780.
			M	100.8	455.0	370.0	7,240	0	HD 535-81-2.
Waurika Lk .....	OK Jefferson .....	Beaver Cr .....	F	140.4	962.5	951.4	15,000	10,100	PL 88-253.
			FMCAR	199.7	951.4	910.0	10,100	830	
Whitney Lk .....	TX Hill, Bosquel .....	Brazos R .....	F	1,372.0	571.0	533.0	49,820	23,560	PL 77-228.
			PM	381.9	533.0	425.0	23,560	475	HD 390-76-1.
Wister Lk .....	OK LeFlore .....	Poteau R .....	F	387.0	502.5	474.6	23,070	5,000	PL 75-761.
			F	2,363.7	259.5	220.0	119,700	20,300	PL 79-526.
Wright Patman Lk .....	TX Bowie, Cass .....	Sulphur R .....	FM	142.7	220.0	180.0	20,300	0	

<sup>1</sup> Res—Reservoir; Lk—Lake; Div—Diversion; R—River; Cr—Creek; Fk—Fork; L&D—Lock & Dam; GIWW—Gulf Intercoastal Waterway; FG—Floodgate; CS—Control Structure; DS—Drainage Structure; PS—Pump Station.

<sup>2</sup> F—Flood Control; N—Navigation; P—Hydropower; I—Irrigation; M—Municipal and/or Industrial Water/Supply; C—Fish and Wildlife Conservation; R—Recreation; A—Low Flow Augmentation or Pollution Abatement; Q—Quality or Silt Control.

<sup>3</sup> PL—Public Law; HD—House Document; RHA—River & Harbor Act; PW—Public Works; FCA—Flood Control Act; WSA—Water Supply Act.

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